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Migratory game birds harvested in Canada during the 1989 hunting season

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Introduction

The Harvest Questionnaire Survey (HQS), formerly called the National Harvest Survey, and the Species Composition Survey (SCS) are conducted annually to estimate the number of migratory game birds killed by hunters in Canada. Together they make up the National Harvest Survey.

Methods

The HQS is based on a questionnaire that asks hunters to provide information on the number, location, and timing of their hunting trips and on migratory game birds killed (for nine species groups). The questionnaire was mailed in early December 1989 to a sample selected from the lists of purchasers of migratory game bird hunting permits for the current and previous years. A reminder was mailed to non-respondents in early February 1990.

The SCS asks hunters to send in the wing from each duck killed and the tail feathers from each goose killed, along with hunting details. This allows the species group harvest estimates from the HQS to be partitioned by species. Wing/tail envelopes were mailed in August 1989 to hunters selected from lists of permit purchasers in previous years. The results of the SCS do not include estimates of illegal kill, legal hunting without permits by native people, or crippling loss. Cooch et al. (1978) give a full description of the survey methods.

Additional wing envelopes for the SCS were sent in January 1990 to the hunters selected in Newfoundland, as they have been since 1983. This extra survey increases the reliability of the estimate of species composition for Newfoundland, by ensuring that wings from the late harvest of sea ducks are adequately represented. The recent trend in kill estimates by species for this province is not comparable with the results prior to 1983. Murres are also legally taken by hunters in Newfoundland, but that kill is addressed by separate surveys (Elliot et al., in press).

Hunters in eastern Canada were asked to send a wing from any woodcock shot. The results of this additional wing collection can be obtained from the Canadian Wildlife Service, PO Box 1590, Sackville, NB E0A 3C0.

The 1989 HQS questionnaire used the same concise format as in 1988. A section on rails was added to the question on harvest of species groups, but the rail data have not yet been analyzed.

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Results

In the past 24 years, the number of permits sold has changed markedly (Fig. 1). The decrease in sales since 1978 should be noted by those who use kill statistics as indices of trends in migratory game bird populations and harvest characteristics. The permit sale totals for each province are given in Table 1.

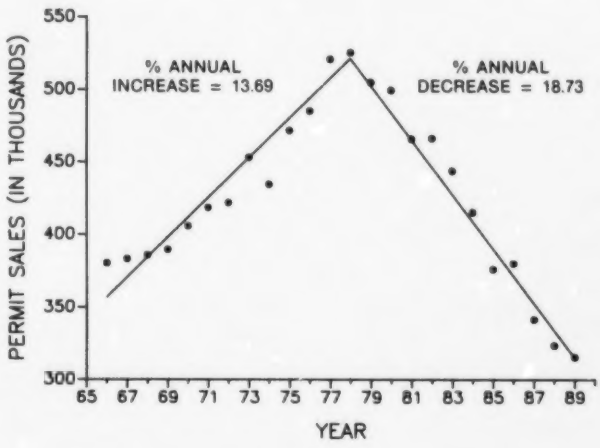
The survey results are summarized for the same 23 geographic zones for which the survey sample selection is stratified (Fig. 2).

The distribution of permit sales between those who purchased a permit the previous year (renewals) and those who did not, and between resident and non-resident (non-Canadian) purchasers, is shown in Table 2.

Table 3 gives the number of permit purchasers who were sampled and who responded to the 1989 HQS. This is compared with earlier years in Table 4. Tables 5 through 15 present the results of the HQS questionnaire. Indications of the amount of recreational activity provided by hunting are presented in Tables 6 and 14.

Table 16 shows the number of permit purchasers who were sampled and who responded to the 1989 SCS. Results of the SCS are used to assign species-specific proportions to the estimated duck and goose kills. The most recent four years of estimated harvests for each species are summarized for Canada (Table 17) and by province and zone (Tables 18 through 29), based on data from both the HQS and the SCS. The percentages in Tables 18 through 29 are not comparable between years because they were calculated in different ways.

Figure 1
Total sales of migratory game bird hunting permits in Canada, 1966–89



In some areas, Canada Geese are further identified to groups of subspecies based on size differences. In the western provinces, the tables show kills for Large and Small Canada Geese; elsewhere, subspecies that could not be separated are recorded simply as Canada Geese.

In the process of calculating estimates, rounding to significant digits took place at the last step in the analyses. It should not be expected that rounded column totals will equal the sum of values that have also been rounded.

References

Cooch, F.G.; Wendt, S.; Smith, G.E.J.; Butler, G. 1978. The Canada Migratory Game Bird Hunting Permit and associated surveys. Pages 8-39 *in* Boyd, H. and Finney, G.H. (eds.). Migratory game bird hunters and hunting in Canada. Can. Wildl. Serv. Rep. Ser. 43. 127 pp.

Elliot, R.D.; Collins, B.T.; Hayakawa, E.G.; Metras, L. In press. The harvest of murres in Newfoundland from 1977-78 to 1987-88. *In* Gaston, A.J. and Elliot, R.D. (eds.). Studies of high-latitude seabirds. 2. Conservation biology of Thick-billed Murres in the northwest Atlantic. Can. Wildl. Serv. Occas. Pap.

Figure 2
Geographic zones used in selecting samples for the HQS and SCS and for reporting their results

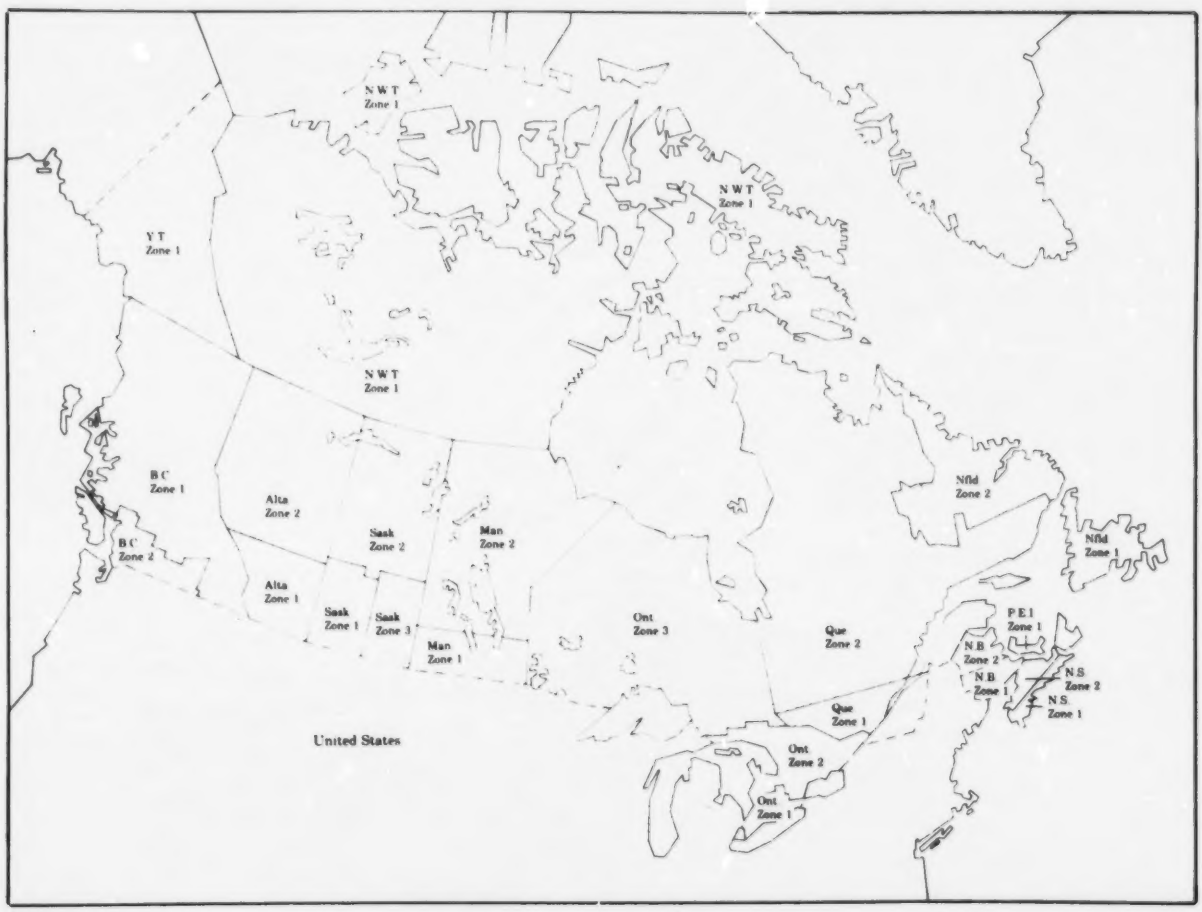


Table 1
Migratory game bird hunting permit sales by province of purchase, 1966–89

Year	Nfld.	PEI	NS	NB	Que.	Ont.	Man.	Sask.	Alta.	BC	NWT	Yukon	Total sales
1989	24 707	4 838	10 092	9 971	54 605	114 292	23 898	22 916	34 559	14 694	420	308	315 300
1988	23 655	4 906	10 264	10 646	57 206	117 310	25 108	23 258	34 513	15 595	496	367	323 324
1987	21 080	4 959	10 299	9 897	55 124	122 472	30 207	29 930	40 122	16 259	523	391	341 263
1986	25 498	5 300	11 047	11 083	59 685	131 930	33 570	37 692	45 042	17 924	692	358	379 821
1985	25 652	5 171	10 749	10 354	60 823	130 089	31 753	36 445	44 880	18 753	713	361	375 743
1984	31 309	5 525	12 896	11 486	65 308	140 521	35 238	37 720	51 717	21 892	850	496	414 958
1983	30 977	5 898	13 468	12 758	67 700	139 569	40 443	45 383	61 742	24 170	750	474	443 332
1982	31 215	5 461	13 728	12 759	72 850	144 436	45 273	47 236	64 968	26 522	800	572	465 820
1981	31 406	5 611	14 130	12 287	75 178	141 677	46 528	42 856	66 163	28 243	764	514	465 352
1980	31 362	5 802	14 257	12 471	76 133	147 952	48 340	54 081	79 318	27 943	732	525	498 916
1979	35 490	5 888	14 098	13 409	73 209	150 224	49 344	56 174	77 021	28 263	755	584	504 459
1978	37 297	6 396	16 297	15 249	74 745	159 698	50 169	57 958	77 117	28 561	821	638	524 946
1977	36 188	6 158	15 744	14 209	72 828	156 895	46 438	60 029	82 175	28 357	902	607	520 530
1976	29 621	5 756	13 326	13 743	66 453	143 816	46 816	61 669	75 739	26 561	893	513	484 771
1975	30 115	4 963	13 990	12 930	63 768	148 670	42 846	57 723	69 191	25 918	721	485	471 320
1974	25 127	5 038	13 791	11 916	58 345	136 469	37 167	51 504	66 127	27 764	591	323	434 162
1973	27 919	4 972	15 071	12 869	57 247	141 277	41 711	51 307	67 012	33 456	—[a]	--	452 841
1972	23 682	4 492	12 158	11 336	53 082	131 427	41 133	50 004	63 309	31 032	—	—	421 677
1971	23 460	4 513	11 381	11 146	50 276	133 563	40 960	49 448	62 902	30 225	—	—	418 237
1970	21 347	3 926	9 926	10 293	46 009	135 231	39 230	47 722	59 986	31 350	—	—	405 650
1969	19 089	3 794	8 848	10 110	39 477	134 037	41 611	45 347	53 602	32 764	—	—	389 325
1968	17 645	3 649	9 022	9 558	37 110	139 182	38 712	43 596	53 623	33 301	—	—	385 553
1967	14 863	3 094	7 883	7 739	32 491	146 493	35 620	44 651	55 892	33 195	—	—	383 032
1966	13 269	3 271	7 220	8 535	35 868	144 063	37 784	44 744	52 911	32 394	—	—	380 059

[a] No data.

Table 2
Permit sales (renewals/non-renewals and resident/non-resident) by province and zone, 1989

Province	Zone	Permit sales			Renewals			Non-renewals		
		Total	Res.	Non-res.	Total	Res.	Non-res.	Total	Res.	Non-res.
Nfld.	1	22 195	22 151	44	16 481	16 446	35	5 714	5 705	9
	2	2 512	2 508	4	2 064	2 064		448	444	4
	Total	24 707	24 659	48	18 545	18 510	35	6 162	6 149	13
PEI	Total	4 838	4 757	81	4 324	4 264	60	514	493	21
NS	1	7 222	7 208	14	6 013	6 007	6	1 209	1 201	8
	2	2 870	2 818	52	2 230	2 204	26	640	614	26
	Total	10 092	10 026	66	8 243	8 211	32	1 849	1 815	34
NB	1	6 551	6 302	249	5 099	4 982	117	1 452	1 320	132
	2	3 420	3 314	106	2 628	2 575	53	792	739	53
	Total	9 971	9 616	355	7 727	7 557	170	2 244	2 059	185
Que.	1	42 204	41 396	808	34 073	33 723	350	8 131	7 673	458
	2	12 401	12 325	76	9 131	9 098	33	3 270	3 227	43
	Total	54 605	53 721	884	43 204	42 821	383	11 401	10 900	501
Ont.	1	33 651	29 568	4 083	27 968	25 043	2 925	5 683	4 525	1 158
	2	60 105	59 270	835	51 876	51 305	571	8 229	7 965	264
	3	20 536	17 177	3 359	15 467	13 336	2 131	5 069	3 841	1 228
	Total	114 292	106 015	8 277	95 311	89 684	5 627	18 981	16 331	2 650
Man.	1	19 585	16 195	3 390	17 052	14 433	2 619	2 533	1 762	771
	2	4 313	3 308	1 005	3 655	2 907	748	658	401	257
	Total	23 898	19 503	4 395	20 707	17 340	3 367	3 191	2 163	1 028
Sask.	1	9 276	8 104	1 172	6 964	6 306	658	2 312	1 798	514
	2	4 695	4 288	407	3 616	3 372	244	1 079	916	163
	3	8 945	7 445	1 500	6 838	5 921	917	2 107	1 524	583
	Total	22 916	19 837	3 079	17 418	15 599	1 819	5 498	4 238	1 260
Alta.	1	14 112	13 694	418	10 772	10 541	231	3 340	3 153	187
	2	20 447	19 857	590	15 631	15 344	287	4 816	4 513	303
	Total	34 559	33 551	1 008	26 403	25 885	518	8 156	7 666	490
BC	1	6 111	5 894	217	4 069	3 983	86	2 042	1 911	131
	2	8 583	8 518	65	6 655	6 632	23	1 928	1 886	42
	Total	14 694	14 412	282	10 724	10 615	109	3 970	3 797	173
NWT	Total	420	404	16	257	252	5	163	152	11
Yukon	Total	308	288	20	158	157	1	150	131	19
Canada	Total	315 300	296 789	18 511	253 021	240 895	12 126	62 279	55 894	6 385

Table 3
Characteristics of sample of the HQS by province and zone, 1989

		Characteristics of sample							
Province	Zone	Sample[a]	Responses[b]	Response rate[c]	Permit purchasers[d]	Active hunters[e]	%[f]	Successful hunters[g]	%[h]
Nfld.	1	2 448	943	38.5	652	416	64	314	48
	2	686	163	23.8	131	96	73	82	63
	Total	3 134	1 106	35.3	783	512	65	396	51
PEI	Total	544	195	35.8	160	123	77	104	65
NS	1	1 490	658	44.2	467	383	82	349	75
	2	463	223	48.2	141	108	77	93	66
	Total	1 953	881	45.1	608	491	81	442	73
NB	1	616	287	46.6	208	180	87	162	78
	2	300	152	50.7	100	79	79	66	66
	Total	916	439	47.9	308	259	84	228	74
Que.	1	4 022	2 165	53.8	1 597	1 263	79	1 134	71
	2	1 707	867	50.8	617	433	70	404	66
	Total	5 729	3 032	52.9	2 214	1 696	77	1 538	70
Ont.	1	2 839	1 566	55.2	1 306	1 021	78	912	70
	2	6 090	3 431	56.3	2 752	2 038	74	1 708	62
	3	3 619	1 791	49.5	1 564	1 263	81	1 147	73
	Total	12 548	6 788	54.1	5 622	4 322	77	3 767	67
Man.	1	2 563	1 382	53.9	1 108	979	88	921	83
	2	1 109	499	45.0	396	351	89	333	84
	Total	3 672	1 881	51.2	1 504	1 330	88	1 254	83
Sask.	1	1 520	707	46.5	553	472	85	456	83
	2	1 007	397	39.4	296	237	80	222	75
	3	1 531	801	52.3	622	544	88	495	80
	Total	4 058	1 905	46.9	1 471	1 253	85	1 173	80
Alta.	1	4 626	2 287	49.4	1 476	1 194	81	1 069	72
	2	3 586	1 796	50.1	1 428	1 096	77	1 021	72
	Total	8 212	4 083	49.7	2 904	2 290	79	2 090	72
BC	1	956	416	43.5	275	206	75	183	67
	2	1 593	772	48.5	502	349	70	313	62
	Total	2 549	1 188	46.6	777	555	71	496	64
NWT	Total	254	108	42.5	71	42	59	39	55
Yukon	Total	201	97	48.3	54	36	67	30	56
Canada	Total	43 770	21 703	49.6	16 476	12 909	78	11 557	70

[a] Number of questionnaires sent out.
[b] Questionnaires that were completed and returned.
[c] Percentage of sample for which responses were received.
[d] Respondents who bought a permit in 1989 (usable responses).
[e] Respondents who hunted.
[f] Percentage of permit purchasers who hunted.
[g] Respondents who hunted successfully.
[h] Percentage of permit purchasers who hunted successfully.

Table 4
Characteristics of sample of the HQS, 1975–89

Year	Permit sales	Characteristics of sample									
		Sample[a]	%[b]	Responses	%[c]	Permit purchasers	%[d]	Active hunters	%[e]	Successful hunters	%[f]
1975	471 320	40 400	8.6	20 648	51.1	15 872	76.9	12 980	81.8	11 170	70.4
1976	484 771	44 969	9.3	20 397	45.4	15 729	77.1	12 805	81.4	10 999	69.9
1977	520 530	45 015	8.6	22 896	50.9	17 833	77.9	14 119	79.2	11 812	66.2
1978	524 946	44 968	8.6	25 745	57.3	19 806	76.9	15 505	78.3	13 168	66.5
1979	504 459	44 743	8.9	23 699	53.0	17 808	75.1	13 642	77.0	11 668	66.0
1980	498 916	44 743	9.0	24 297	54.3	18 364	75.6	14 344	78.1	12 342	67.2
1981	465 352	44 631	9.6	21 269	47.7	15 471	72.7	11 760	76.0	9 886	64.0
1982	465 820	41 559	8.9	19 542	47.0	14 701	75.2	11 376	77.0	9 636	66.0
1983	443 332	40 612	9.2	19 080	47.0	14 629	76.7	11 515	78.7	9 883	67.6
1984	414 958	40 502	9.8	19 157	47.3	14 793	76.0	11 425	77.0	10 076	68.0
1985	375 743	40 502	10.8	19 371	47.8	14 253	73.6	11 373	80.0	9 821	69.0
1986	379 821	40 502	10.7	20 210	49.9	15 312	75.8	12 264	80.1	10 536	68.8
1987	341 263	37 607	11.0	17 407	46.3	13 034	74.9	10 479	80.4	9 083	69.7
1988	323 324	38 010	11.8	23 455	61.7	17 599	75.0	13 308	75.6	11 718	66.6
1989	315 300	43 770	13.9	21 703	49.6	16 476	75.9	12 909	78.0	11 557	70.0
Average	435 324	42 169	9.9	21 258	50.4	16 112	75.7	12 654	78.6	10 890	67.7

[a] Number of questionnaires sent out.
[b] Sample as a percentage of permit sales.
[c] Percentage of sampled population who responded.
[d] Percentage of respondents who bought a permit.
[e] Percentage of permit purchasers who hunted.
[f] Percentage of permit purchasers who hunted successfully.

Table 5
Estimated number of successful hunters, and waterfowl harvested, by province, species group, and zone, 1987–89

Province/ species group	Zone	Successful hunters			Birds harvested			Birds harvested/ successful hunter		
		1987	1988	1989	1987	1988[a]	1989	1987	1988	1989
Newfoundland										
Ducks	1	6 046	8 455	9 403	38 969	68 024	67 393	6.44	8.05	7.17
	2	1 263	1 241	1 666	20 264	15 821	25 548	16.04	12.75	15.33
	Total	7 309	9 696	11 070	59 233	83 846	92 941	8.10	8.65	8.40
Geese	1	1 774	1 925	1 928	5 290	6 004	4 739	2.98	3.12	2.46
	2	825	573	989	5 633	3 185	4 508	6.82	5.55	4.55
	Total	2 600	2 498	2 918	10 923	9 189	9 248	4.20	3.68	3.17
Prince Edward Island										
Ducks	Total	3 231	3 296	1 995	28 703	34 331	21 660	8.88	10.42	10.85
Geese	Total	2 467	2 926	3 013	21 236	24 500	22 708	8.61	8.37	7.53
Nova Scotia										
Ducks	1	4 191	3 706	4 392	60 227	53 950	91 698	14.37	14.56	20.87
	2	2 271	2 695	2 161	25 867	30 859	28 232	11.39	11.45	13.06
	Total	6 462	6 401	6 554	86 095	84 810	119 931	13.32	13.25	18.30
Geese	1	1 613	1 067	1 803	9 522	6 542	13 543	5.90	6.13	7.51
	2	537	725	844	1 910	3 224	3 030	3.56	4.44	3.59
	Total	2 151	1 793	2 648	11 432	9 767	16 574	5.31	5.44	6.26
New Brunswick										
Ducks	1	4 453	4 882	4 573	41 392	46 525	47 639	9.29	9.53	10.42
	2	2 044	2 176	1 855	18 535	17 112	16 949	9.07	7.86	9.14
	Total	6 497	7 059	6 429	59 928	63 638	64 589	9.22	9.01	10.05
Geese	1	616	352	903	1 761	1 110	3 599	2.86	3.15	3.98
	2	966	719	1 055	3 128	3 419	3 808	3.24	4.75	3.61
	Total	1 582	1 071	1 959	4 889	4 529	7 408	3.09	4.23	3.78
Quebec										
Ducks	1	28 926	27 862	24 938	376 581	366 725	343 655	13.02	13.16	13.78
	2	8 823	7 178	7 715	92 298	80 188	91 236	10.46	11.17	11.82
	Total	37 750	35 041	32 654	468 879	446 914	434 892	12.42	12.75	13.32
Geese	1	11 936	8 663	12 407	84 138	51 573	79 294	7.05	5.95	6.39
	2	3 177	2 440	3 693	16 334	13 266	22 125	5.14	5.44	5.99
	Total	15 114	11 104	16 100	100 473	64 840	101 420	6.65	5.84	6.30
Ontario										
Ducks	1	17 362	13 506	15 401	212 582	157 339	192 038	12.24	11.65	12.47
	2	46 245	38 871	36 340	439 714	380 228	352 141	9.51	9.78	9.69
	3	12 208	11 649	11 632	120 127	123 738	136 890	9.84	10.62	11.77
	Total	75 816	64 026	63 374	772 424	661 305	681 069	10.19	10.33	10.75
Geese	1	9 008	7 211	8 847	39 018	28 922	44 052	4.33	4.01	4.98
	2	10 422	8 911	10 245	36 931	29 445	35 617	3.54	3.30	3.48
	3	4 384	4 258	5 990	21 105	23 392	31 219	4.81	5.49	5.21
	Total	23 815	20 382	25 083	97 055	81 760	110 889	4.08	4.01	4.42
Manitoba										
Ducks	1	15 355	9 336	8 917	146 147	79 235	76 800	9.52	8.49	8.61
	2	5 535	4 225	4 300	67 053	46 734	44 621	12.11	11.06	10.38
	Total	20 891	13 561	13 218	213 201	125 969	121 421	10.21	9.29	9.19
Geese	1	15 425	11 615	12 411	126 075	98 446	126 997	8.17	8.48	10.23
	2	4 006	3 773	4 637	28 860	30 643	43 334	7.20	8.12	9.35
	Total	19 431	15 389	17 048	154 936	129 090	170 332	7.97	8.39	9.99

(continued)

Table 5 *(concluded)*
Estimated number of successful hunters, and waterfowl harvested, by province, species group, and zone, 1987–89

Province/ species group	Zone	Successful hunters			Birds harvested			Birds harvested/ successful hunter		
		1987	1988	1989	1987	1988[a]	1989	1987	1988	1989
Saskatchewan										
Ducks	1	6 943	4 344	4 441	67 862	30 321	36 743	9.77	6.98	8.27
	2	4 432	3 405	3 239	60 543	41 785	35 748	13.66	12.27	11.04
	3	8 400	4 331	4 403	78 812	32 670	31 641	9.38	7.54	7.19
	Total	19 775	12 080	12 084	207 218	104 777	104 133	10.48	8.67	8.62
Geese	1	8 122	6 213	7 132	85 172	57 777	72 598	10.49	9.30	10.18
	2	3 529	3 023	3 225	33 135	24 449	31 906	9.39	8.09	9.89
	3	7 178	5 211	5 503	56 019	43 171	45 295	7.80	8.28	8.23
	Total	18 830	14 488	15 860	174 327	125 398	149 801	9.26	8.68	9.44
Alberta										
Ducks	1	11 431	7 897	9 528	111 370	66 240	84 957	9.74	8.39	8.92
	2	16 643	10 854	13 421	193 955	116 905	170 073	11.65	10.77	12.67
	Total	28 075	18 752	22 949	305 326	183 146	255 031	10.88	9.77	11.11
Geese	1	8 798	7 503	8 680	63 559	52 108	73 366	7.22	6.94	8.45
	2	10 388	9 034	9 742	81 068	78 893	80 513	7.80	8.73	8.26
	Total	19 186	16 537	18 423	144 628	131 002	153 880	7.54	7.92	8.35
British Columbia										
Ducks	1	3 739	3 398	3 273	54 314	40 901	34 538	14.53	12.04	10.55
	2	4 885	4 241	3 911	78 671	74 639	66 536	16.10	17.60	17.01
	Total	8 624	7 639	7 185	132 986	115 541	101 075	15.42	15.12	14.07
Geese	1	2 285	1 830	2 197	8 925	8 912	10 841	3.91	4.87	4.93
	2	1 936	1 864	1 631	9 077	9 361	7 000	4.69	5.02	4.29
	Total	4 222	3 695	3 828	18 002	18 273	17 842	4.26	4.95	4.66
Northwest Territories										
Ducks	Total	390	388	243	4 429	5 132	3 967	11.35	13.22	16.28
Geese	Total	163	308	230	914	2 334	1 436	5.60	7.56	6.22
Yukon										
Ducks	Total	203	135	89	1 517	1 327	796	7.47	9.81	8.91
Geese	Total	116	62	44	358	230	295	3.07	3.16	6.62
Canada										
Ducks	Total	215 028	178 079	177 849	2 339 945	1 910 736	2 001 509	10.88	10.73	11.25
Geese	Total	109 683	90 219	107 161	739 179	600 917	761 837	6.74	6.66	7.11

[a]Some of the 1988 Birds harvested data provided in Progress Note No. 190 have been revised here.

Table 6
Estimated recreational activity provided by the hunting of ducks and geese, 1989

Province	Zone	Permit sales	Active hunters	Successful hunters	Birds harvested	Recreation days	S. bag[a] (avg.)	D. bag[b] (avg.)	R. days[c] (avg.)
Nfld.	1	22 195	13 041	9 475	72 132	167 875	5.5	0.4	12.9
	2	2 512	2 055	1 780	30 056	20 430	14.6	1.5	9.9
	Total	24 707	15 096	11 255	102 188	188 305	6.8	0.5	12.5
PEI	Total	4 838	4 030	3 476	44 368	42 624	11.0	1.0	10.6
NS	1	7 222	4 952	4 561	105 242	61 766	21.3	1.7	12.5
	2	2 870	2 633	2 230	31 263	25 053	11.9	1.2	9.5
	Total	10 092	7 585	6 791	136 505	86 819	18.0	1.6	11.4
NB	1	6 551	5 118	4 623	51 239	30 139	10.0	1.7	5.9
	2	3 420	2 377	1 936	20 757	28 408	8.7	0.7	12.0
	Total	9 971	7 495	6 559	71 996	58 547	9.6	1.2	7.8
Que.	1	42 204	30 861	27 109	422 949	270 594	13.7	1.6	8.8
	2	12 401	8 965	8 284	113 361	85 521	12.6	1.3	9.5
	Total	54 605	39 826	35 393	536 310	356 115	13.5	1.5	8.9
Ont.	1	33 651	20 702	17 082	236 090	177 351	11.4	1.3	8.6
	2	60 105	45 283	37 975	387 758	317 026	8.6	1.2	7.0
	3	20 536	15 024	12 860	168 109	119 640	11.2	1.4	8.0
	Total	114 292	81 009	67 917	791 957	614 017	9.8	1.3	7.6
Man.	1	19 585	15 229	14 154	203 797	109 117	13.4	1.9	7.2
	2	4 313	6 194	5 786	87 956	36 303	14.2	2.4	5.9
	Total	23 898	21 423	19 940	291 753	145 420	13.6	2.0	6.8
Sask.	1	9 276	7 984	7 634	109 342	51 668	13.7	2.1	6.5
	2	4 695	4 647	4 294	67 654	33 366	14.6	2.0	7.2
	3	8 945	7 159	6 440	76 937	47 036	10.7	1.6	6.6
	Total	22 916	19 790	18 368	253 933	132 070	12.8	1.9	6.7
Alta.	1	14 112	13 542	12 231	158 324	85 291	11.7	1.9	6.3
	2	20 447	16 643	15 615	250 586	113 561	15.1	2.2	6.8
	Total	34 559	30 185	27 846	408 910	198 852	13.5	2.1	6.6
BC	1	6 111	4 500	3 930	45 380	25 485	10.1	1.8	5.7
	2	8 583	4 708	4 112	73 537	42 485	15.6	1.7	9.0
	Total	14 694	9 208	8 042	118 917	67 970	12.9	1.7	7.4
NWT	Total	420	390	353	5 403	2 281	13.9	2.4	5.8
Yukon	Total	308	147	111	1 092	724	7.4	1.5	4.9
Canada	Total	315 300	236 184	206 051	2 763 332	1 893 744	11.7	1.5	8.0

[a] S. bag = mean seasonal bag per active hunter.
[b] D. bag = mean daily bag per active hunter.
[c] R. days = mean recreation days per active hunter.

Table 7
Estimated number of migratory game birds, other than waterfowl, harvested in Canada, 1984–89

Species	1984	1985	1986	1987	1988	1989	1984–89 avg.
American Woodcock	99 744	90 374	104 602	131 393	115 806	103 776	107 616
Common Snipe	75 452	54 971	55 169	54 765	36 652	49 532	54 424
American Coot	27 362	21 183	15 297	10 923	11 515	10 005	16 048
Sandhill Crane	3 717	5 159	6 106	5 268	6 946	4 985	5 364
Mourning Dove	993	455	529	1 165	294	845	714
Band-tailed Pigeon	3 074	1 561	1 291	1 851	1 778	1 022	1 763
Total	210 342	173 703	182 994	205 365	172 991	170 165	185 929

Table 8
Estimated number of successful hunters of American Woodcock, and birds harvested, by province and zone, 1987–89

		Successful hunters			Birds harvested			Birds harvested/ successful hunter		
Province	Zone	1987	1988	1989	1987	1988	1989	1987	1988	1989
PEI	Total	64	100	93	64	112	126	1.0	1.1	1.4
NS	1	382	315	262	3 058	2 888	1 453	8.0	9.2	5.5
	2	200	147	260	1 057	385	1 795	5.3	2.6	6.9
	Total	582	462	523	4 116	3 274	3 248	7.1	7.1	6.2
NB	1	649	659	812	3 823	5 808	9 380	5.9	8.8	11.5
	2	446	417	297	7 427	2 391	3 076	16.6	5.7	10.4
	Total	1 096	1 076	1 109	11 250	8 199	12 457	10.3	7.6	11.2
Que.	1	5 272	4 207	4 424	37 227	40 710	30 289	7.1	9.7	6.9
	2	965	596	752	8 638	3 256	3 278	9.0	5.5	4.4
	Total	6 237	4 803	5 176	45 866	43 967	33 568	7.4	9.1	6.5
Ont.	1	3 655	2 180	2 503	25 428	26 517	19 399	7.0	12.2	7.8
	2	6 090	5 074	4 704	37 320	30 290	30 010	6.1	6.0	6.4
	3	1 084	875	1 021	6 941	3 443	4 964	6.4	3.9	4.9
	Total	10 830	8 130	8 229	69 691	60 251	54 375	6.4	7.4	6.6
Canada	Total	18 875	14 573	15 132	131 393	115 806	103 776	7.0	7.9	6.9
No. of successful hunters sampled		597	629	634						

Table 9
Estimated number of successful hunters of Common Snipe, and birds harvested, by province and zone, 1987–89

Province	Zone	Successful hunters			Birds harvested			Birds harvested/ successful hunter		
		1987	1988	1989	1987	1988	1989	1987	1988	1989
Nfld.	1	1 460	1 292	2 117	7 453	5 917	11 050	5.1	4.6	5.2
	2	148	40	118	583	70	378	3.9	1.8	3.2
	Total	1 609	1 332	2 236	8 037	5 987	11 428	5.0	4.5	5.1
PEI	Total	18	59	126	74	568	348	4.0	9.5	2.8
NS	1	160	176	162	509	726	2 956	3.2	4.1	18.2
	2	106	188	127	800	593	585	7.5	3.2	4.5
	Total	267	365	290	1 309	1 320	3 542	4.9	3.6	12.2
NB	1	109	249	348	473	1 302	1 367	4.3	5.2	3.9
	2	149	72	153	2 230	414	404	15.0	5.7	2.7
	Total	258	322	501	2 703	1 716	1 772	10.5	5.3	3.5
Que.	1	3 789	2 921	2 964	20 461	12 366	15 864	5.4	4.2	5.4
	2	739	640	868	5 083	3 380	4 548	6.9	5.3	5.2
	Total	4 528	3 561	3 832	25 544	15 747	20 413	5.6	4.4	5.3
Ont.	1	484	310	360	1 449	1 439	2 853	3.0	4.6	7.9
	2	1 484	1 217	1 062	5 272	3 757	3 540	3.6	3.1	3.3
	3	410	227	188	1 036	1 214	808	2.5	5.3	4.3
	Total	2 378	1 756	1 611	7 758	6 411	7 202	3.3	3.7	4.5
Man.	1	292	138	77	1 273	907	328	4.4	6.6	4.2
	2	24	64	16	72	481	129	3.0	7.4	8.0
	Total	316	203	93	1 346	1 389	458	4.2	6.8	4.9
Sask.	1	91	22	42	1 386	136	122	15.1	6.0	2.9
	2	81	30	—	198	125	—	2.4	4.1	—
	3	178	23	81	883	235	735	5.0	10.0	9.0
	Total	351	76	123	2 468	497	857	7.0	6.5	6.9
Alta.	1	251	133	116	1 861	1 164	477	7.4	8.7	4.1
	2	315	171	218	1 976	681	1 605	6.3	4.0	7.3
	Total	566	305	335	3 837	1 845	2 083	6.8	6.0	6.2
BC	1	77	81	49	306	362	542	4.0	4.4	11.0
	2	184	151	116	1 372	802	883	7.4	5.3	7.6
	Total	261	233	165	1 679	1 164	1 425	6.4	5.0	8.6
NWT	Total	—	—	—	—	—	—	—	—	—
Yukon	Total	5	4	—	5	4	—	1.0	1.0	—
Canada	Total	10 563	8 220	9 316	54 765	36 652	49 532	5.2	4.5	5.3
No. of successful hunters sampled		392	372	392						

Table 10
Estimated number of successful hunters of American Coot, and birds harvested, by province and zone, 1987–89

Province	Zone	Successful hunters			Birds harvested			Birds harvested/ successful hunter		
		1987	1988	1989	1987	1988	1989	1987	1988	1989
NS	1	—	—	9	—	—	37	—	—	4.0
	2	—	—	—	—	—	—	—	—	—
	Total	—	—	9	—	—	37	—	—	4.0
Que.	1	1 437	1 269	1 152	3 673	5 593	3 726	2.6	4.4	3.2
	2	125	129	173	321	270	668	2.6	2.1	3.9
	Total	1 563	1 399	1 325	3 995	5 863	4 394	2.6	4.2	3.3
Ont.	1	401	104	174	1 274	426	366	3.2	4.1	2.1
	2	587	557	601	926	1 243	1 615	1.6	2.2	2.7
	3	188	313	121	323	1 125	473	1.7	3.6	3.9
	Total	1 176	976	897	2 524	2 794	2 455	2.2	2.9	2.7
Man.	1	124	72	184	421	145	935	3.4	2.0	5.1
	2	54	91	30	102	458	204	1.9	5.0	6.8
	Total	178	164	214	524	604	1 139	2.9	3.7	5.3
Sask.	1	135	38	116	709	76	309	5.2	2.0	2.7
	2	93	146	71	312	692	779	3.3	4.7	10.9
	3	76	74	20	126	162	40	1.7	2.2	2.0
	Total	306	259	208	1 148	931	1 129	3.7	3.6	5.4
Alta.	1	140	70	99	389	188	195	2.8	2.7	2.0
	2	236	49	9	1 162	253	9	4.9	5.1	1.0
	Total	376	120	109	1 552	441	205	4.1	3.7	1.9
BC	1	123	98	99	494	792	297	4.0	8.1	3.0
	2	118	24	65	684	87	345	5.8	3.5	5.3
	Total	241	123	165	1 179	879	642	4.9	7.2	3.9
NWT	Total	—	—	—	—	—	—	—	—	—
Yukon	Total	—	—	—	—	—	—	—	—	—
Canada	Total	3 844	3 043	2 929	10 923	11 515	10 005	2.8	3.8	3.4
No. of successful hunters sampled		136	154	149						

Table 11
Estimated number of successful hunters of Sandhill Crane, and birds harvested, by province and zone, 1987–89

Province	Zone	Successful hunters			Birds harvested			Birds harvested/ successful hunter		
		1987	1988	1989	1987	1988	1989	1987	1988	1989
Man.	1	257	376	424	496	1 340	1 329	1.9	3.6	3.1
	2	155	194	173	299	614	1 337	1.9	3.2	7.7
	Total	413	570	598	795	1 955	2 666	1.9	3.4	4.5
Sask.	1	169	221	155	392	1 215	709	2.3	5.5	4.6
	2	162	43	—	836	147	—	5.2	3.4	—
	3	795	697	332	3 242	3 628	1 609	4.1	5.2	4.8
	Total	1 127	962	487	4 472	4 991	2 318	4.0	5.2	4.8
Canada	Total	1 540	1 533	1 086	5 268	6 946	4 985	3.4	4.5	4.6
No. of successful hunters sampled		52	72	53						

Table 12
Estimated number of successful hunters of Mourning Dove, and birds harvested, by province and zone, 1987–89

Province	Zone	Successful hunters			Birds harvested			Birds harvested/ successful hunter		
		1987	1988	1989	1987	1988	1989	1987	1988	1989
BC	1	19	27	44	99	256	319	5.0	9.5	7.2
	2	39	12	38	1 066	37	525	27.1	3.0	13.7
	Total	59	39	82	1 165	294	845	19.7	7.4	10.2
No. of successful hunters sampled		3	3	4						

Table 13
Estimated number of successful hunters of Band-tailed Pigeon, and birds harvested, by province and zone, 1987–89

Province	Zone	Successful hunters			Birds harvested			Birds harvested/ successful hunter		
		1987	1988	1989	1987	1988	1989	1987	1988	1989
BC	1	35	—	16	458	—	328	13.0	—	20.0
	2	201	185	105	1 393	1 778	693	6.9	9.6	6.6
	Total	236	185	121	1 851	1 778	1 022	7.8	9.6	8.5
No. of successful hunters sampled		13	14	7						

Table 14
Estimated recreational activity provided by the hunting of migratory game birds other than waterfowl, 1989

Province	Zone	Permit sales	Active hunters	Successful hunters	Birds harvested	Recreation days	S. bag[a] (avg.)	D. bag[b] (avg.)	R. days[c] (avg.)
Nfld.	1	22 195	4 154	2 117	11 050	40 068	2.7	0.3	9.6
	2	2 512	422	118	378	3 925	0.9	0.1	9.3
	Total	24 707	4 576	2 235	11 428	43 993	2.5	0.3	9.6
PEI	Total	4 838	447	146	474	2 492	1.1	0.2	5.6
NS	1	7 222	1 652	383	4 447	14 730	2.7	0.3	8.9
	2	2 870	623	316	2 381	4 348	3.8	0.5	7.0
	Total	10 092	2 275	699	6 828	19 078	3.0	0.4	8.4
NB	1	6 551	1 602	1 037	10 748	8 261	6.7	1.3	5.2
	2	3 420	791	414	3 481	10 240	4.4	0.3	12.9
	Total	9 971	2 393	1 451	14 229	18 501	5.9	0.8	7.7
Que.	1	42 204	8 477	6 630	49 881	48 466	5.9	1.0	5.7
	2	12 401	2 004	1 449	8 495	12 525	4.2	0.7	6.3
	Total	54 605	10 481	8 079	58 376	60 991	5.6	1.0	5.8
Ont.	1	33 651	4 347	2 817	22 619	23 992	5.2	0.9	5.5
	2	60 105	10 458	5 674	35 166	63 423	3.4	0.6	6.1
	3	20 536	2 489	1 226	6 246	15 703	2.5	0.4	6.3
	Total	114 292	17 294	9 717	64 031	103 118	3.7	0.6	6.0
Man.	1	19 585	2 020	619	2 593	9 511	1.3	0.3	4.7
	2	4 313	652	204	1 671	4 393	2.6	0.4	6.7
	Total	23 898	2 672	823	4 264	13 904	1.6	0.3	5.2
Sask.	1	9 276	642	272	1 141	2 033	1.8	0.6	3.2
	2	4 695	370	71	779	1 911	2.1	0.4	5.2
	3	8 945	1 317	414	2 385	4 964	1.8	0.5	3.8
	Total	22 916	2 329	757	4 305	8 908	1.8	0.5	3.8
Alta.	1	14 112	1 175	199	673	6 084	0.6	0.1	5.2
	2	20 447	1 295	228	1 615	6 074	1.2	0.3	4.7
	Total	34 559	2 470	427	2 288	12 158	0.9	0.2	4.9
BC	1	6 111	410	193	1 487	2 468	3.6	0.6	6.0
	2	8 583	593	258	2 448	3 823	4.1	0.6	6.4
	Total	14 694	1 003	451	3 935	6 291	3.9	0.6	6.3
NWT	Total	420	12	—	—	96	—	—	8.0
Yukon	Total	308	—	—	—	—	—	—	—
Canada	Total	315 300	45 952	24 785	170 158	289 530	3.7	0.6	6.3

[a] S. bag = mean seasonal bag per active hunter.
[b] D. bag = mean daily bag per active hunter.
[c] R. days = mean recreation days per active hunter.

Table 15
Precision of estimates of 90% confidence of active hunters, duck kill, and goose kill from the HQS by province and zone, 1988–89

Province	Zone	Year	Active hunters (± %)	Duck harvest (± %)	Goose harvest (± %)
Nfld.	1	1988	11 386 ± 6.61	62 033 ± 14.80	5 494 ± 38.92
		1989	11 378 ± 6.79	59 393 ± 14.29	4 161 ± 27.62
	2	1988	1 553 ± 15.68	14 758 ± 25.45	3 106 ± 36.78
		1989	1 923 ± 13.61	24 299 ± 24.12	4 367 ± 31.95
PEI		1988	4 173 ± 8.81	32 348 ± 22.66	23 444 ± 26.43
		1989	3 877 ± 10.03	21 295 ± 33.05	22 455 ± 22.80
NS	1	1988	3 878 ± 7.74	46 017 ± 14.27	5 727 ± 35.91
		1989	4 682 ± 7.09	89 554 ± 16.07	12 803 ± 24.74
	2	1988	3 117 ± 10.78	30 201 ± 29.72	3 213 ± 33.64
		1989	2 562 ± 12.71	26 555 ± 30.76	2 976 ± 37.99
NB	1	1988	5 198 ± 9.25	44 481 ± 16.46	1 060 ± 60.33
		1989	4 998 ± 8.45	44 135 ± 19.21	3 419 ± 56.12
	2	1988	2 407 ± 15.59	11 803 ± 24.31	1 932 ± 49.60
		1989	2 366 ± 15.20	16 770 ± 26.70	3 808 ± 33.78
Que.	1	1988	28 514 ± 3.77	317 611 ± 8.47	43 985 ± 13.95
		1989	27 527 ± 3.86	315 395 ± 8.73	68 851 ± 13.00
	2	1988	7 281 ± 7.49	69 657 ± 12.24	12 045 ± 32.12
		1989	8 192 ± 7.09	82 901 ± 13.02	20 041 ± 19.85
Ont.	1	1988	17 960 ± 5.13	141 727 ± 10.93	26 186 ± 15.17
		1989	19 558 ± 5.18	175 664 ± 10.40	40 562 ± 19.83
	2	1988	45 315 ± 2.95	356 548 ± 6.95	28 106 ± 15.50
		1989	44 340 ± 3.03	342 168 ± 6.58	34 288 ± 13.94
	3	1988	13 516 ± 5.08	115 924 ± 9.67	22 130 ± 15.12
		1989	14 373 ± 4.95	130 924 ± 9.08	29 620 ± 14.58
Man.	1	1988	13 684 ± 4.91	73 053 ± 12.03	91 046 ± 9.29
		1989	14 495 ± 4.56	73 267 ± 10.50	122 976 ± 8.40
	2	1988	5 525 ± 7.57	44 720 ± 10.33	29 574 ± 14.07
		1989	5 974 ± 7.43	42 265 ± 10.62	41 965 ± 12.49
Sask.	1	1988	6 996 ± 7.88	27 476 ± 15.60	54 602 ± 12.90
		1989	7 734 ± 6.87	34 778 ± 16.70	69 231 ± 9.67
	2	1988	4 223 ± 9.06	40 468 ± 15.78	23 133 ± 16.74
		1989	4 487 ± 9.14	34 229 ± 16.65	31 450 ± 19.92
	3	1988	6 839 ± 7.44	30 478 ± 12.42	40 786 ± 14.56
		1989	6 888 ± 6.72	29 724 ± 15.73	44 344 ± 11.20
Alta.	1	1988	11 080 ± 4.55	64 746 ± 9.50	50 460 ± 9.56
		1989	13 245 ± 4.26	83 630 ± 8.84	69 076 ± 9.99
	2	1988	13 956 ± 4.79	113 126 ± 9.64	75 545 ± 10.92
		1989	16 231 ± 4.20	167 260 ± 9.14	79 343 ± 9.96
BC	1	1988	4 148 ± 10.12	38 799 ± 17.59	8 610 ± 22.42
		1989	4 384 ± 10.53	33 254 ± 19.21	10 235 ± 22.23
	2	1988	4 466 ± 7.36	68 696 ± 14.64	7 969 ± 23.36
		1989	4 493 ± 8.89	59 461 ± 16.65	6 294 ± 24.05
NWT		1988	500 ± 21.15	5 108 ± 36.77	2 247 ± 49.82
		1989	366 ± 26.30	3 787 ± 54.43	1 195 ± 52.79
Yukon		1988	181 ± 28.43	1 319 ± 38.30	209 ± 64.21
		1989	138 ± 31.77	726 ± 53.99	286 ± 69.73
Canada total		1988	215 881 ± 1.32	1 751 095 ± 2.91	560 608 ± 3.74
		1989	224 213 ± 1.31	1 891 434 ± 2.88	723 747 ± 3.41

Table 16
Characteristics of sample of the SCS by province and zone, 1989

		Characteristics of sample					
Province	Zone	Permit sales	Sample	Response rate[a]	Estimated response rate from successful hunters[b]	Net coverage of hunting population[c]	Parts of birds received
Nfld.	1	22 195	932	12.4	40	0.9	382
	2	2 512	453	5.5	12	1.2	135
PEI		4 838	1 014	7.7	15	2.0	373
NS	1	7 222	1 929	7.5	12	2.9	700
	2	2 870	944	11.5	23	4.1	636
NB	1	6 551	710	15.2	22	2.1	736
	2	3 420	849	6.9	13	2.5	253
Que.	1	42 204	1 944	27.7	49	1.8	3 245
	2	12 401	1 223	23.5	51	3.2	1 788
Ont.	1	33 651	1 718	18.0	33	1.5	1 334
	2	60 105	2 238	21.5	47	1.1	3 351
	3	20 536	2 270	14.5	25	2.2	1 783
Man.	1	19 585	830	22.3	31	1.2	1 242
	2	4 313	237	14.3	19	0.6	420
Sask.	1	9 276	384	16.1	23	0.8	529
	2	4 695	300	15.0	25	1.0	349
	3	8 945	363	18.5	26	0.9	509
Alta.	1	14 112	780	18.7	32	1.1	1 281
	2	20 447	752	17.6	32	0.8	1 384
BC	1	6 111	1 537	8.3	17	2.8	910
	2	8 583	1 309	11.9	27	3.3	1 314
NWT		420	125	4.8	15	1.5	26
Yukon		308	68	4.4	12	2.0	5
Canada total		315 300	22 909	15.5	28	1.5	22 685

[a] The percentage of selected hunters who submitted a part sample.
[b] The percentage of successful hunters who submitted a part sample, obtained using response rate /(% of successful hunters × % of active hunters).
[c] The percentage of the total hunting population who submitted a part sample, obtained using number of responses / estimated active hunters.

Table 17
Total waterfowl harvest in Canada by species, 1986–89

Species	1986		1987		1988		1989	
	Harvest	%	Harvest	%	Harvest	%	Harvest	%
Common Merganser	30 713	1.3	21 650	0.9	25 710	1.3	18 703	0.9
Red-breasted Merganser	19 427	0.8	8 106	0.3	8 362	0.4	16 658	0.8
Hooded Merganser	27 699	1.1	25 033	1.1	24 926	1.3	27 228	1.4
Mallard	879 217	36.3	1 040 370	44.5	661 465	33.6	734 329	36.7
American Black Duck	293 929	12.1	297 036	12.7	302 649	15.4	261 617	13.1
Gadwall	52 830	2.2	39 211	1.7	24 255	1.2	38 790	1.9
European Wigeon	528	0.0	0	0.0	0	0.0	0	0.0
American Wigeon	77 015	3.2	63 060	2.7	46 394	2.4	58 044	2.9
Eurasian Green-winged Teal	0	0.0	0	0.0	0	0.0	77	0.0
American Green-winged Teal	173 456	7.2	134 778	5.8	148 546	7.6	199 566	10.0
Blue-winged Teal	74 827	3.1	48 154	2.1	44 125	2.2	45 660	2.3
Northern Shoveler	38 543	1.6	20 900	0.9	19 481	1.0	19 656	1.0
Northern Pintail	60 517	2.5	70 433	3.0	64 439	3.3	63 790	3.2
Wood Duck	122 857	5.1	146 584	6.3	131 965	6.7	133 321	6.7
Redhead	42 551	1.8	23 510	1.0	73 359	3.7	6 507	0.3
Canvasback	29 408	1.2	11 040	0.5	8 797	0.4	6 165	0.3
Greater Scaup	53 434	2.2	24 337	1.0	31 272	1.6	34 972	1.8
Lesser Scaup	102 446	4.2	73 792	3.2	71 886	3.7	84 099	4.2
Ring-necked Duck	135 642	5.6	103 931	4.4	97 917	4.9	85 676	4.3
Common Goldeneye	80 560	3.3	71 201	3.0	80 431	4.1	64 507	3.2
Barrow's Goldeneye	3 093	0.1	2 202	0.1	24 014	1.2	4 138	0.2
Bufflehead	42 308	1.7	38 430	1.6	15 522	0.8	28 506	1.4
Ruddy Duck	9 168	0.4	1 313	0.1	636	0.0	1 003	0.1
Oldsquaw	16 014	0.7	11 382	0.5	9 048	0.5	9 370	0.5
Common Eider	28 317	1.2	23 041	1.0	19 906	1.0	22 926	1.1
King Eider	1 001	0.0	1 093	0.0	64	0.0	220	0.0
Harlequin Duck	2 521	0.1	1 197	0.1	1 193	0.0	298	0.0
Black Scoter	8 841	0.4	12 474	0.5	5 471	0.3	7 230	0.4
White-winged Scoter	5 114	0.2	12 202	0.5	12 675	0.6	11 889	0.6
Surf Scoter	9 553	0.4	13 480	0.6	11 759	0.6	16 537	0.8
Total ducks	2 421 529	100.0	2 339 940	100.0	1 966 267	100.0	2 001 482	100.0
Canada Goose	189 808	30.4	211 361	28.6	189 947	31.7	230 739	30.4
Small Canada Goose	58 530	9.4	78 587	10.6	53 542	8.9	87 085	11.5
Large Canada Goose	207 704	33.3	242 125	32.8	154 859	25.9	204 171	26.9
Lesser Snow Goose (white phase)	57 235	9.2	61 392	8.3	74 127	12.4	81 999	10.8
Lesser Snow Goose (blue phase)	37 169	6.0	46 578	6.3	38 011	6.4	55 019	7.2
Greater Snow Goose	9 992	1.6	37 586	5.1	42 949	7.2	41 590	5.5
Ross' Goose	3 370	0.5	5 484	0.7	4 640	0.8	4 890	0.6
White-fronted Goose	59 021	9.5	53 774	7.3	40 072	6.7	54 566	7.2
Brant	1 360	0.2	1 078	0.1	319	0.0	100	0.0
Total geese	624 279	100.0	739 237	100.0	598 466	100.0	760 159	100.0
Total waterfowl	3 045 808	—	3 079 177	—	2 564 733	—	2 761 641	—

Table 18
Estimated number of waterfowl harvested in Newfoundland, 1986–89

Species	Zone	1986 Harvest	1986 %[a]	1987 Harvest	1987 %[a]	1988 Harvest	1988 %[a]	1989 Harvest	1989 %[a]
Common Merganser	1	7 192	8.9	3 940	10.1	6 703	9.5	4 513	6.7
	2	2 050	9.8	0	0.0	4 354	27.5	954	3.7
	Total	9 242	9.1	3 940	6.7	11 057	13.2	5 467	5.9
Red-breasted Merganser	1	3 221	4.0	2 581	6.6	1 433	2.1	7 073	10.5
	2	3 448	16.5	142	0.7	975	6.2	1 011	4.0
	Total	6 669	6.5	2 723	4.6	2 408	2.9	8 084	8.7
Hooded Merganser	1	0	0.0	0	0.0	0	0.0	0	0.0
	2	321	1.5	569	2.8	0	0.0	0	0.0
	Total	321	0.3	569	1.0	0	0.0	0	0.0
Mallard	1	2 161	2.7	1 130	2.9	0	0.0	724	1.1
	2	324	1.6	0	0.0	0	0.0	608	2.4
	Total	2 485	2.4	1 130	1.9	0	0.0	1 332	1.4
American Black Duck	1	19 968	24.6	12 819	32.9	14 989	22.0	24 978	37.1
	2	6 615	31.7	3 988	19.7	4 914	31.0	3 328	13.0
	Total	26 583	26.1	16 807	28.4	19 903	23.7	28 306	30.5
American Wigeon	1	294	0.4	0	0.0	0	0.0	1 331	2.0
	2	0	0.0	0	0.0	0	0.0	0	0.0
	Total	294	0.3	0	0.0	0	0.0	1 331	1.4
American Green-winged Teal	1	10 259	12.6	4 969	12.8	6 465	9.5	10 270	15.2
	2	2 382	11.4	1 296	6.4	0	0.0	3 787	14.8
	Total	12 641	12.4	6 265	10.6	6 465	7.7	14 057	15.1
Blue-winged Teal	1	345	0.4	98	0.3	0	0.0	786	1.2
	2	0	0.0	0	0.0	0	0.0	0	0.0
	Total	345	0.3	98	0.2	0	0.0	786	0.8
Northern Pintail	1	528	0.7	0	0.0	2 245	3.3	604	0.9
	2	217	1.0	1 137	5.6	0	0.0	657	2.6
	Total	745	0.7	1 137	1.9	2 245	2.7	1 261	1.4
Canvasback	1	0	0.0	0	0.0	0	0.0	0	0.0
	2	324	1.6	0	0.0	0	0.0	0	0.0
	Total	324	0.3	0	0.0	0	0.0	0	0.0
Greater Scaup	1	4 911	6.1	833	2.1	906	1.3	3 738	5.6
	2	217	1.0	0	0.0	0	0.0	1 501	5.9
	Total	5 128	5.0	833	1.4	906	1.1	5 239	5.6
Lesser Scaup	1	737	0.9	263	0.7	0	0.0	108	0.2
	2	769	3.7	0	0.0	0	0.0	1 746	6.8
	Total	1 506	1.5	263	0.4	0	0.0	1 854	2.0
Ring-necked Duck	1	12 354	15.2	4 968	12.7	5 527	8.1	3 873	5.8
	2	2 548	12.2	0	0.0	0	0.0	0	0.0
	Total	14 902	14.6	4 968	8.4	5 527	6.6	3 873	4.2

(continued)

Table 18 *(concluded)*
Estimated number of waterfowl harvested in Newfoundland, 1986–89

Species	Zone	1986		1987		1988		1989	
		Harvest	%[a]	Harvest	%[a]	Harvest	%[a]	Harvest	%[a]
Common Goldeneye	1	19 185	23.6	5 208	13.4	12 050	17.7	4 701	7.0
	2	1 639	7.9	1 397	6.9	3 318	21.0	3 241	12.7
	Total	20 824	20.4	6 605	11.2	15 368	18.3	7 942	8.6
Barrow's Goldeneye	1	0	0.0	0	0.0	0	0.0	0	0.0
	2	0	0.0	0	0.0	0	0.0	107	0.4
	Total	0	0.0	0	0.0	0	0.0	107	0.1
Total sport ducks		102 009	82.0	45 338	76.5	63 879	76.2	79 639	85.7
Oldsquaw	1	0	0.0	0	0.0	2 992	4.4	0	0.0
	2	0	0.0	0	0.0	0	0.0	0	0.0
	Total	0	0.0	0	0.0	2 992	3.6	0	0.0
Common Eider	1	17 670	14.2	2 063	5.3	11 388	16.7	3 307	4.9
	2	0	0.0	9 388	46.3	2 260	14.3	5 517	21.6
	Total	17 670	14.2	11 451	19.3	13 648	16.3	8 824	9.5
King Eider	1	767	0.6	0	0.0	0	0.0	0	0.0
	2	0	0.0	786	3.9	0	0.0	0	0.0
	Total	767	0.6	786	1.3	0	0.0	0	0.0
Black Scoter	1	230	0.2	0	0.0	153	0.2	0	0.0
	2	541	0.4	852	4.2	0	0.0	495	1.9
	Total	771	0.6	852	1.4	153	1.4	495	0.5
White-winged Scoter	1	0	0.0	0	0.0	2 167	3.2	248	0.4
	2	324	0.3	0	0.0	0	0.0	0	0.0
	Total	324	0.3	0	0.0	2 167	2.6	248	0.3
Surf Scoter	1	1 459	1.2	98	0.3	1 005	1.5	1 139	1.7
	2	1 339	1.1	709	3.5	0	0.0	2 595	10.2
	Total	2 798	2.3	807	1.4	1 005	1.2	3 734	4.0
Total sea ducks		22 330	18.0	13 896	23.5	19 965	23.8	13 301	14.3
Total ducks		124 339	88.0	59 234	100.0	83 844	100.0	92 940	100.0
Canada Goose	1	11 105	99.1	5 290	100.0	6 004	100.0	4 739	100.0
	2	5 776	100.0	5 633	100.0	3 185	100.0	4 508	100.0
	Total	16 881	99.4	10 923	100.0	9 189	100.0	9 247	100.0
Brant	1	102	0.9	0	0.0	0	0.0	0	0.0
	2	0	0.0	0	0.0	0	0.0	0	0.0
	Total	102	0.6	0	0.0	0	0.0	0	0.0
Total geese		16 983	12.0	10 923	100.0	9 189	100.0	9 247	100.0
Total waterfowl		141 322	100.0	70 157	—	93 033	—	102 187	—

[a] Different methods of calculating percentages have been used in past years, so that only years 1987, 1988, and 1989 are comparable in Tables 18 through 29. Zonal percentages were calculated as (species / total ducks or total geese in zone) × 100; total percentages were calculated as (species / total ducks or total geese in province) × 100.

Table 19
Estimated number of waterfowl harvested in Prince Edward Island, 1986–89

Species	1986		1987		1988		1989	
	Harvest	%[a]	Harvest	%[a]	Harvest	%[a]	Harvest	%[a]
Common Merganser	54	0.2	0	0.0	0	0.0	0	0.0
Red-breasted Merganser	0	0.0	0	0.0	97	0.3	130	0.6
Hooded Merganser	54	0.2	0	0.0	80	0.2	0	0.0
Mallard	688	2.3	1 070	3.7	954	2.8	977	4.5
American Black Duck	18 690	63.6	17 629	61.4	20 893	60.9	11 944	55.1
Gadwall	0	0.0	0	0.0	160	0.5	148	0.7
American Wigeon	484	1.6	668	2.3	190	0.6	391	1.8
American Green-winged Teal	6 101	20.8	5 386	18.8	7 156	20.8	5 948	27.5
Blue-winged Teal	593	2.0	484	1.7	931	2.7	536	2.5
Northern Shoveler	0	0.0	138	0.5	80	0.2	49	0.2
Northern Pintail	598	2.0	1 803	6.3	1 277	3.7	601	2.8
Wood Duck	0	0.0	0	0.0	0	0.0	49	0.2
Greater Scaup	418	1.4	0	0.0	0	0.0	51	0.2
Lesser Scaup	0	0.0	911	3.2	93	0.3	49	0.2
Ring-necked Duck	360	1.2	614	2.1	1 500	4.4	787	3.6
Common Goldeneye	604	2.1	0	0.0	613	1.8	0	0.0
Barrow's Goldeneye	728	2.5	0	0.0	0	0.0	0	0.0
Bufflehead	0	0.0	0	0.0	307	0.9	0	0.0
Total sport ducks	29 372	99.4	28 703	100.0	34 331	100.0	21 660	99.7
Common Eider	108	0.4	0	0.0	0	0.0	0	0.0
Oldsquaw	0	0.0	0	0.0	0	0.0	0	0.0
Black Scoter	0	0.0	0	0.0	0	0.0	0	0.0
White-winged Scoter	0	0.0	0	0.0	0	0.0	0	0.0
Surf Scoter	82	0.3	0	0.0	0	0.0	0	0.0
Total sea ducks	190	0.6	0	0.0	0	0.0	0	0.0
Total ducks	29 562	57.6	28 703	100.0	34 331	100.0	21 660	100.0
Canada Goose	21 784	100.0	21 236	100.0	24 500	100.0	22 608	99.6
Brant	0	0.0	0	0.0	0	0.0	100	0.4
Total geese	21 784	42.4	21 236	100.0	24 500	100.0	22 708	100.0
Total waterfowl	51 346	100.0	49 939	—	58 831	—	44 368	—

[a] Different methods of calculating percentages have been used in past years, so that only years 1987, 1988, and 1989 are comparable in Tables 18 through 29.

Table 20
Estimated number of waterfowl harvested in Nova Scotia, 1986–89

Species	Zone	1986		1987		1988[a]		1989	
		Harvest	%[b]	Harvest	%[b]	Harvest	%[b]	Harvest	%[b]
Common Merganser	1	435	0.8	913	1.5	529	1.0	1 489	1.6
	2	896	2.9	228	0.9	612	2.0	730	2.6
	Total	1 331	1.6	1 141	1.3	1 141	1.3	2 219	1.8
Red-breasted Merganser	1	2 984	5.6	905	1.5	1 333	2.5	2 505	2.7
	2	125	0.4	330	1.3	240	0.8	539	1.9
	Total	3 109	3.7	1 235	1.4	1 573	1.9	3 044	2.5
Hooded Merganser	1	362	0.7	191	0.3	156	0.3	430	0.5
	2	146	0.5	35	0.1	95	0.3	318	1.1
	Total	508	0.6	226	0.2	251	0.3	748	0.6
Mallard	1	2 190	4.1	2 569	4.3	1 320	2.5	3 223	3.5
	2	1 005	3.3	1 588	6.1	1 087	3.5	1 236	4.4
	Total	3 195	3.8	4 157	4.8	2 407	2.8	4 459	3.7
American Black Duck	1	28 881	54.5	28 768	47.8	24 743	45.9	30 607	33.4
	2	17 116	56.3	14 807	57.2	19 917	64.5	15 354	54.4
	Total	45 997	55.2	43 575	50.6	44 660	52.7	45 961	38.3
Gadwall	1	0	0.0	0	0.0	151	0.3	0	0.0
	2	30	0.1	0	0.0	0	0.0	0	0.0
	Total	30	0.0	0	0.0	151	0.2	0	0.0
American Wigeon	1	178	0.3	0	0.0	35	0.1	81	0.1
	2	222	0.7	681	2.6	104	0.3	407	1.4
	Total	400	0.5	681	0.8	139	0.2	488	0.4
American Green-winged Teal	1	6 587	12.4	4 331	7.2	4 092	7.6	17 182	18.7
	2	6 572	21.6	4 793	18.5	4 910	15.9	5 901	20.9
	Total	13 159	15.8	9 124	10.6	9 002	10.6	23 083	19.2
Blue-winged Teal	1	696	1.3	502	0.8	69	0.1	81	0.1
	2	911	3.0	632	2.4	346	1.1	374	1.3
	Total	1 607	1.9	1 134	1.3	415	0.4	455	0.4
Northern Shoveler	1	0	0.0	110	0.2	0	0.0	253	0.3
	2	30	0.1	0	0.0	0	0.0	128	0.5
	Total	30	0.0	110	0.1	0	0.0	381	0.3
Northern Pintail	1	530	1.0	491	0.8	130	0.2	218	0.2
	2	274	0.9	124	0.5	335	1.1	134	0.5
	Total	804	1.0	615	0.7	465	0.5	342	0.3
Wood Duck	1	183	0.3	350	0.6	357	0.7	651	0.7
	2	146	0.5	708	2.7	208	0.7	166	0.6
	Total	329	0.4	1 058	1.2	565	0.7	817	0.7
Redhead	1	102	0.2	0	0.0	107	0.2	0	0.0
	2	0	0.0	35	0.1	0	0.0	0	0.0
	Total	102	0.1	35	0.0	107	0.1	0	0.0
Canvasback	1	458	0.9	0	0.0	0	0.0	0	0.0
	2	0	0.0	0	0.0	0	0.0	0	0.0
	Total	458	0.5	0	0.0	0	0.0	0	0.0
Greater Scaup	1	2 111	4.0	584	1.0	2 271	4.2	2 032	2.2
	2	322	1.1	124	0.5	747	2.4	647	2.3
	Total	2 433	2.9	708	0.8	3 018	3.6	2 679	2.2
Lesser Scaup	1	434	0.8	651	1.1	787	1.5	1 238	1.4
	2	30	0.1	253	0.8	253	0.8	40	0.1
	Total	464	0.6	681	1.1	1 040	1.2	1 278	1.1

(continued)

Table 20 *(concluded)*
Estimated number of waterfowl harvested in Nova Scotia, 1986–89

Species	Zone	1986 Harvest	1986 %[b]	1987 Harvest	1987 %[b]	1988[a] Harvest	1988[a] %[b]	1989 Harvest	1989 %[b]
Ring-necked Duck	1	2 548	4.8	1 229	2.0	1 798	3.3	2 044	2.2
	2	1 295	4.3	872	3.4	911	3.0	560	2.0
	Total	3 843	4.6	2 101	2.4	2 709	3.2	2 604	2.2
Common Goldeneye	1	3 347	6.3	3 116	5.2	3 013	5.6	6 845	7.5
	2	1 257	4.1	545	2.1	822	2.7	1 085	3.8
	Total	4 604	5.5	3 661	4.3	3 835	4.5	7 930	6.6
Barrow's Goldeneye	1	0	0.0	0	0.0	0	0.0	317	0.4
	2	0	0.0	15	0.1	0	0.0	0	0.0
	Total	0	0.0	15	0.0	0	0.0	317	0.3
Bufflehead	1	971	1.8	587	1.0	1 974	3.7	888	0.1
	2	26	0.1	76	0.3	209	0.7	0	0.0
	Total	997	1.2	663	0.8	2 183	2.6	888	0.7
Ruddy Duck	1	0	0.0	98	0.2	0	0.0	0	0.0
	2	0	0.0	0	0.0	0	0.0	0	0.0
	Total	0	0.0	98	0.1	0	0.0	0	0.0
Total sport ducks		83 396	83.6	71 018	82.5	73 661	86.9	97 693	81.5
Oldsquaw	1	3 243	3.3	3 312	5.5	2 314	4.3	2 856	3.1
	2	181	0.2	164	0.6	0	0.0	0	0.0
	Total	3 424	3.4	3 476	4.0	2 314	2.7	2 856	2.4
Common Eider	1	6 534	6.6	5 635	9.4	4 047	7.5	11 906	13.0
	2	298	0.3	0	0.0	0	0.0	99	0.4
	Total	6 832	6.8	5 635	6.5	4 047	4.8	12 005	10.0
King Eider	1	0	0.0	99	0.2	0	0.0	163	0.2
	2	0	0.0	0	0.0	0	0.0	57	0.2
	Total	0	0.0	99	0.1	0	0.0	220	0.2
Harlequin Duck	1	159	0.2	46	0.1	35	0.1	0	0.0
	2	0	0.0	0	0.0	0	0.0	0	0.0
	Total	159	0.2	46	0.1	35	0.0	0	0.0
Black Scoter	1	3 258	3.3	1 439	2.4	624	1.2	580	0.6
	2	0	0.0	0	0.0	0	0.0	80	0.3
	Total	3 258	3.3	1 439	1.7	624	0.7	660	0.6
White-winged Scoter	1	307	0.3	1 087	1.8	1 771	3.3	1 310	1.4
	2	0	0.0	33	0.1	0	0.0	261	0.9
	Total	307	0.3	1 120	1.3	1 771	2.1	1 571	1.3
Surf Scoter	1	2 378	2.4	3 214	5.3	2 296	4.3	4 799	5.2
	2	0	0.0	47	0.2	63	0.2	119	0.4
	Total	2 378	2.4	3 261	3.8	2 359	2.8	4 918	4.1
Total sea ducks		16 358	16.4	15 076	17.5	11 150	13.1	22 230	18.5
Total ducks		99 754	91.2	86 094	100.0	84 811	100.0	119 923	100.0
White-fronted Goose	1	0	0.0	0	0.0	0	0.0	0	0.0
	2	0	0.0	0	0.0	0	0.0	38	1.3
	Total	0	0.0	0	0.0	0	0.0	38	0.2
Canada Goose	1	6 516	100.0	9 522	100.0	6 542	100.0	13 543	100.0
	2	3 062	100.0	1 910	100.0	3 224	100.0	2 992	98.7
	Total	9 578	100.0	11 432	100.0	9 766	100.0	16 535	99.8
Total geese		9 578	8.8	11 432	100.0	9 766	100.0	16 573	100.0
Total waterfowl		109 332	100.0	97 526	—	94 577	—	136 496	—

[a] Some of the 1988 Harvest and % data provided in Progress Note No. 190 have been revised here.
[b] Different methods of calculating percentages have been used in past years, so that only years 1987, 1988, and 1989 are comparable in Tables 18 through 29. Zonal percentages were calculated as (species / total ducks or total geese in zone) × 100; total percentages were calculated as (species / total ducks or total geese in province) × 100.

Table 21
Estimated number of waterfowl harvested in New Brunswick, 1986–89

Species	Zone	1986		1987		1988		1989	
		Harvest	%[a]	Harvest	%[a]	Harvest	%[a]	Harvest	%[a]
Common Merganser	1	714	1.4	823	2.0	346	0.7	0	0.0
	2	222	2.1	577	3.1	281	1.6	854	5.0
	Total	1 136	1.6	1 400	2.3	627	1.0	854	1.3
Red-breasted Merganser	1	393	0.8	104	0.3	0	0.0	0	0.0
	2	0	0.0	144	0.8	190	1.1	51	0.3
	Total	393	0.6	248	0.4	190	0.3	51	0.1
Hooded Merganser	1	789	1.6	202	0.5	661	1.4	56	0.1
	2	117	0.6	718	3.9	300	1.8	139	0.8
	Total	906	1.3	920	1.5	961	1.5	195	0.3
Mallard	1	1 239	2.5	2 125	5.1	1 476	3.2	1 627	3.4
	2	1 284	6.4	1 082	5.8	122	0.7	579	3.4
	Total	2 523	3.6	3 207	5.4	1 598	2.5	2 206	3.4
American Black Duck	1	17 042	34.2	16 574	40.0	19 149	41.2	18 259	38.3
	2	10 626	52.7	10 125	54.6	11 937	69.8	7 822	46.2
	Total	27 668	39.5	26 699	44.6	31 086	48.9	26 081	40.4
Gadwall	1	0	0.0	0	0.0	0	0.0	0	0.0
	2	0	0.0	72	0.4	0	0.0	0	0.0
	Total	0	0.0	72	0.1	0	0.0	0	0.0
American Wigeon	1	1 988	4.0	1 757	4.2	1 406	3.0	1 548	3.3
	2	817	4.0	561	3.0	148	0.9	755	4.5
	Total	2 805	4.0	2 318	3.9	1 554	2.4	2 303	3.6
American Green-winged Teal	1	8 025	16.1	4 903	11.8	6 966	14.9	10 124	21.3
	2	1 915	9.5	2 189	11.8	904	5.3	2 648	15.6
	Total	9 940	14.2	7 092	11.8	7 870	12.4	12 772	19.8
Blue-winged Teal	1	4 442	8.9	2 587	6.3	1 819	3.9	1 694	3.6
	2	581	2.9	144	0.8	579	3.4	51	0.3
	Total	5 023	7.2	2 731	4.6	2 398	3.8	1 745	2.7
Northern Shoveler	1	245	0.5	0	0.0	277	0.6	178	0.4
	2	45	0.2	144	0.8	0	0.0	139	0.8
	Total	290	0.4	144	0.2	277	0.4	317	0.5
Northern Pintail	1	521	1.0	695	1.7	416	0.9	1 167	2.5
	2	1 216	6.0	388	2.1	367	2.1	280	1.7
	Total	1 737	2.5	1 083	1.8	783	1.2	1 447	2.2
Wood Duck	1	2 362	4.7	3 177	7.7	3 394	7.3	2 377	5.0
	2	45	0.2	504	2.7	414	2.4	403	2.4
	Total	2 407	3.4	3 681	6.1	3 808	5.9	2 780	4.3
Redhead	1	0	0.0	49	0.1	0	0.0	0	0.0
	2	0	0.0	0	0.0	0	0.0	0	0.0
	Total	0	0.0	49	0.1	0	0.0	0	0.0
Greater Scaup	1	747	1.5	1 131	2.7	230	0.5	651	1.4
	2	759	3.8	253	1.4	129	0.8	906	5.3
	Total	1 506	2.1	1 384	2.3	359	0.6	1 557	2.4
Lesser Scaup	1	738	1.5	349	0.8	277	0.6	796	1.7
	2	896	4.4	0	0.0	122	0.7	388	2.3
	Total	1 634	2.3	349	0.6	399	0.6	1 184	1.8
Ring-necked Duck	1	6 270	12.6	4 059	9.8	5 153	11.1	5 316	11.2
	2	697	3.5	388	2.1	538	3.2	1 399	8.3
	Total	6 967	9.9	4 447	7.4	5 691	8.9	6 715	10.4

(continued)

Table 21 *(concluded)*
Estimated number of waterfowl harvested in New Brunswick, 1986–89

Species	Zone	1986		1987		1988		1989	
		Harvest	%[a]	Harvest	%[a]	Harvest	%[a]	Harvest	%[a]
Common Goldeneye	1	3 891	7.8	1 689	4.1	3 918	8.4	3 148	6.6
	2	462	2.3	505	2.7	151	0.9	336	2.0
	Total	4 353	6.2	2 194	3.7	4 069	6.4	3 484	5.4
Barrow's Goldeneye	1	0	0.0	46	0.1	552	1.2	326	0.7
	2	102	0.5	0	0.0	309	1.8	0	0.0
	Total	102	0.1	46	0.1	861	1.4	326	0.5
Bufflehead	1	469	0.9	453	1.1	0	0.0	373	0.8
	2	190	0.9	0	0.0	43	0.3	0	0.0
	Total	659	0.9	453	0.8	43	0.0	373	0.6
Ruddy Duck	1	0	0.0	0	0.0	0	0.0	0	0.0
	2	0	0.0	0	0.0	0	0.0	59	0.4
	Total	0	0.0	0	0.0	0	0.0	59	0.1
Total sport ducks		70 049	98.7	58 517	97.6	62 574	98.3	64 449	99.8
Oldsquaw	1	0	0.0	0	0.0	0	0.0	0	0.0
	2	0	0.0	0	0.0	28	0.2	0	0.0
	Total	0	0.0	0	0.0	28	0.0	0	0.0
Common Eider	1	500	0.7	248	0.6	417	0.9	0	0.0
	2	102	0.1	0	0.0	43	0.3	0	0.0
	Total	602	0.8	248	0.4	460	0.7	0	0.0
King Eider	1	51	0.1	0	0.0	0	0.0	0	0.0
	2	0	0.0	0	0.0	0	0.0	0	0.0
	Total	51	0.1	0	0.0	0	0.0	0	0.0
Harlequin Duck	1	0	0.0	68	0.2	0	0.0	0	0.0
	2	0	0.0	0	0.0	0	0.0	0	0.0
	Total	0	0.0	68	0.1	0	0.0	0	0.0
Black Scoter	1	0	0.0	228	0.6	0	0.0	0	0.0
	2	0	0.0	614	3.3	322	1.9	0	0.0
	Total	0	0.0	842	1.4	322	0.5	0	0.0
White-winged Scoter	1	51	0.1	0	0.0	69	0.2	0	0.0
	2	0	0.0	59	0.3	0	0.0	139	0.8
	Total	51	0.1	59	0.1	69	0.1	139	0.2
Surf Scoter	1	200	0.3	124	0.3	184	1.1	0	0.0
	2	0	0.0	72	0.4	0	0.0	0	0.0
	Total	200	0.3	196	0.3	184	0.3	0	0.0
Total sea ducks		904	1.3	1 413	2.4	1 063	1.7	139	0.2
Total ducks		70 953	92.8	59 930	100.0	63 637	100.0	64 588	100.0
Canada Goose	1	2 123	94.0	1 761	100.0	1 109	100.0	3 599	100.0
	2	3 211	100.0	3 128	100.0	3 419	100.0	3 808	100.0
	Total	5 334	97.5	4 889	100.0	4 528	100.0	7 407	100.0
Large Canada Goose	1	75	3.3	0	0.0	0	0.0	0	0.0
	2	0	0.0	0	0.0	0	0.0	0	0.0
	Total	75	3.3	0	0.0	0	0.0	0	
Greater Snow Goose	1	60	2.7	0	0.0	0	0.0	0	0.0
	2	0	0.0	0	0.0	0	0.0	0	0.0
	Total	60	2.7	0	0.0	0	0.0	0	
Total geese		5 469	7.2	4 889	100.0	4 528	100.0	7 407	100.0
Total waterfowl		76 422	100.0	64 819	—	68 165	—	71 995	—

[a] Different methods of calculating percentages have been used in past years, so that only years 1987, 1988, and 1989 are comparable in Tables 18 through 29. Zonal percentages were calculated as (species / total ducks or total geese in zone) × 100; total percentages were calculated as (species / total ducks or total geese in province) × 100.

Table 22
Estimated number of waterfowl harvested in Quebec, 1986–89

Species	Zone	1986 Harvest	1986 %*	1987 Harvest	1987 %*	1988 Harvest	1988 %*	1989 Harvest	1989 %*
Common Merganser	1	7 697	2.3	6 933	1.8	5 109	1.4	4 369	1.3
	2	3 734	4.6	4 046	4.4	2 295	2.9	3 076	3.4
	Total	11 431	2.7	10 979	2.3	7 404	1.7	7 445	1.7
Red-breasted Merganser	1	4 952	1.5	2 139	0.6	1 984	0.5	2 776	0.8
	2	1 968	2.4	939	1.0	916	1.1	1 046	1.2
	Total	6 920	1.7	3 078	0.7	2 900	0.7	3 822	0.9
Hooded Merganser	1	6 599	2.0	7 219	1.9	5 168	1.4	11 022	3.2
	2	895	1.1	1 760	1.9	708	0.9	1 256	1.4
	Total	7 494	1.8	8 979	1.9	5 876	1.3	12 278	2.8
Mallard	1	76 154	22.6	103 059	27.4	73 243	20.0	59 485	17.3
	2	8 291	10.1	13 734	14.99	9 052	11.3	14 509	15.9
	Total	84 445	20.2	116 793	24.9	82 295	18.4	73 994	17.0
American Black Duck	1	82 118	24.4	96 399	25.6	91 936	25.1	67 633	19.7
	2	32 585	39.9	33 521	36.3	34 189	42.6	33 515	36.7
	Total	114 703	27.4	129 920	27.7	126 125	28.2	101 148	23.3
Gadwall	1	5 168	1.5	4 700	1.2	4 688	1.3	3 656	1.1
	2	82	0.1	65	0.1	115	0.1	124	0.2
	Total	5 250	1.3	4 765	1.0	4 803	1.1	3 780	0.9
American Wigeon	1	6 433	1.9	4 069	1.1	2 365	0.7	4 565	1.3
	2	496	0.6	1 153	1.2	693	0.9	930	1.1
	Total	6 929	1.7	5 222	1.1	3 058	0.7	5 495	1.3
American Green-winged Teal	1	41 928	12.4	32 844	8.7	43 402	11.8	57 072	16.6
	2	13 201	16.1	7 375	8.0	8 961	11.2	13 373	14.7
	Total	55 129	13.2	40 219	8.6	52 363	11.7	70 445	16.2
Blue-winged Teal	1	8 265	2.5	6 624	1.8	4 688	1.3	4 521	1.3
	2	1 183	1.4	1 373	1.5	1 178	1.5	1 676	1.8
	Total	9 448	2.3	7 997	1.7	5 866	1.3	6 197	1.4
Northern Shoveler	1	2 230	0.7	2 000	0.5	2 016	0.6	2 340	0.7
	2	131	0.2	0	0.0	781	1.0	435	0.5
	Total	2 361	0.6	2 000	0.4	2 797	0.6	2 775	0.6
Northern Pintail	1	9 779	2.9	10 243	2.7	11 021	3.0	12 353	3.6
	2	3 233	4.0	1 678	1.8	1 622	2.0	2 934	3.2
	Total	13 012	3.1	11 921	2.5	12 643	2.8	15 287	3.5
Wood Duck	1	14 217	4.2	21 377	5.7	25 297	6.9	24 306	7.1
	2	977	1.2	1 443	1.6	1 238	1.5	1 204	1.3
	Total	15 194	3.6	22 820	4.9	26 535	5.9	25 510	5.9
Redhead	1	1 630	0.5	1 609	0.4	1 157	0.3	993	0.3
	2	40	0.0	80	0.1	0	0.0	0	0.0
	Total	1 670	0.4	1 689	0.4	1 157	0.3	993	0.2
Canvasback	1	1 010	0.3	530	0.1	535	0.2	0	0.0
	2	102	0.1	0	0.0	0	0.0	0	0.0
	Total	1 112	0.3	530	0.1	535	0.1	0	0.0
Greater Scaup	1	10 776	3.2	6 489	1.7	13 001	3.6	9 656	2.8
	2	951	1.2	694	0.8	765	1.0	275	0.3
	Total	11 727	2.8	7 183	1.5	13 766	3.1	9 931	2.3
Lesser Scaup	1	17 605	5.2	9 339	2.5	18 597	5.1	23 411	6.8
	2	5 862	7.2	2 852	3.1	3 918	4.9	3 758	4.1
	Total	23 467	5.6	12 191	2.6	22 515	5.0	27 169	6.2

(continued)

Table 22 *(continued)*
Estimated number of waterfowl harvested in Quebec, 1986–89

Species	Zone	1986		1987		1988		1989	
		Harvest	%[a]	Harvest	%[a]	Harvest	%[a]	Harvest	%[a]
Ring-necked Duck	1	24 752	7.3	18 795	5.0	27 104	7.4	22 385	6.5
	2	3 761	4.6	4 857	5.3	3 180	4.0	3 494	3.8
	Total	28 513	6.8	23 652	5.0	30 284	6.8	25 879	6.0
Common Goldeneye	1	12 452	3.7	17 775	4.7	15 389	4.2	5 403	1.6
	2	3 606	4.4	2 836	3.1	2 275	2.8	3 589	3.9
	Total	16 058	3.8	20 611	4.4	17 664	4.0	8 992	2.1
Barrow's Goldeneye	1	511	0.2	0	0.0	0	0.0	1 188	0.4
	2	541	0.7	413	0.4	97	0.1	549	0.6
	Total	1 052	0.3	413	0.1	97	0.0	1 737	0.4
Bufflehead	1	2 078	0.6	4 302	1.1	5 118	1.4	4 359	1.3
	2	105	0.1	634	0.7	525	0.7	635	0.7
	Total	2 183	0.5	4 936	1.1	5 643	1.3	4 994	1.1
Ruddy Duck	1	708	0.2	0	0.0	0	0.0	395	0.1
	2	0	0.0	0	0.0	0	0.0	0	0.0
	Total	708	0.2	0	0.0	0	0.0	395	0.1
Total sport ducks		418 806	96.5	435 898	93.0	425 326	95.2	408 266	93.9
Oldsquaw	1	4 122	0.9	2 210	0.6	870	0.2	5 228	1.5
	2	1 400	0.3	3 437	3.7	1 455	1.8	853	0.9
	Total	5 522	1.3	5 647	1.2	1 325	0.3	6 081	1.4
Common Eider	1	189	0.0	849	0.2	0	0.0	772	0.2
	2	2 845	0.7	4 502	4.9	1 751	2.1	1 037	1.1
	Total	3 034	0.7	5 351	1.1	1 751	0.4	1 809	0.4
King Eider	1	149	0.0	208	0.1	0	0.0	0	0.0
	2	0	0.0	0	0.0	64	0.1	0	0.0
	Total	149	0.0	208	0.0	64	0.0	0	0.0
Harlequin Duck	1	0	0.0	248	0.1	0	0.0	0	0.0
	2	176	0.0	193	0.2	0	0.0	0	0.0
	Total	176	0.0	441	0.1	0	0.0	0	0.0
Black Scoter	1	1 759	0.4	6 757	1.8	3 120	0.9	4 082	1.2
	2	301	0.1	678	0.7	482	0.6	1 339	1.5
	Total	2 060	0.5	7 435	1.6	3 602	0.8	5 421	1.2
White-winged Scoter	1	2 290	0.5	5 596	1.5	5 875	1.6	7 584	2.2
	2	126	0.0	1 569	1.7	1 405	1.8	588	0.6
	Total	2 416	0.6	7 165	1.5	7 280	1.6	8 172	1.9
Surf Scoter	1	1 037	0.2	4 269	1.1	5 041	1.4	4 101	1.2
	2	945	0.2	2 467	2.7	2 524	3.2	1 041	1.1
	Total	1 982	0.5	6 736	1.4	7 565	1.7	5 142	1.2
Total sea ducks		5 339	3.5	32 983	7.0	21 587	4.8	26 625	6.1
Total ducks		434 145	89.6	468 881	100.0	446 913	100.0	434 891	100.0
Canada Goose	1	28 632	73.5	45 282	70.5	7 990	15.5	38 719	48.8
	2	10 945	97.5	15 125	92.6	10 557	79.6	20 267	91.6
	Total	39 577	78.9	60 407	60.1	18 547	28.6	58 986	58.2
Lesser Snow Goose (white phase)	1	0	0.0	1 039	1.6	3 346	6.5	735	0.9
	2	0	0.0	67	0.4	24	0.2	141	0.6
	Total	0	0.0	1 106	1.1	3 370	5.2	876	0.9

(continued)

Table 22 *(concluded)*
Estimated number of waterfowl harvested in Quebec, 1986–89

Species	Zone	1986		1987		1988		1989	
		Harvest	%[a]	Harvest	%[a]	Harvest	%[a]	Harvest	%[a]
Lesser Snow Goose	1	0	0.0	366	0.5	58	0.1	252	0.3
(blue phase)	2	0	0.0	0	0.0	0	0.0	0	0.0
	Total	0	0.0	366	0.4	58	0.1	252	0.2
Greater Snow Goose	1	9 748	25.0	36 726	57.2	40 180	77.9	39 589	49.9
	2	184	1.6	859	5.3	2 684	20.2	1 717	7.8
	Total	9 932	19.8	37 586	37.4	42 864	66.1	41 306	40.7
White-fronted Goose	1	0	0.0	0	0.0	0	0.0	0	0.0
	2	96	0.9	0	0.0	0	0.0	0	0.0
	Total	96	0.9	0	0.0	0	0.0	0	0.0
Brant	1	566	1.5	801	1.2	0	0.0	0	0.0
	2	0	0.0	277	1.7	0	0.0	0	0.0
	Total	566	1.1	1 078	1.1	0	0.0	0	0.0
Total geese		50 171	10.4	100 543	100.0	64 839	100.0	101 420	100.0
Total waterfowl		484 316	100.0	569 424	—	511 752	—	536 311	—

[a] Different methods of calculating percentages have been used in past years, so that only years 1987, 1988, and 1989 are comparable in Tables 18 through 29. Zonal percentages were calculated as (species / total ducks or total geese in zone) × 100; total percentages were calculated as (species / total ducks or total geese in province) × 100.

Table 23
Estimated number of waterfowl harvested in Ontario, 1986–89

Species	Zone	1986 Harvest	1986 %[a]	1987 Harvest	1987 %[a]	1988 Harvest	1988 %[a]	1989 Harvest	1989 %[a]
Common Merganser	1	195	0.1	0	0.0	409	0.3	607	0.3
	2	4 958	1.2	2 205	0.5	4 439	1.2	1 519	0.4
	3	1 547	1.0	924	0.8	185	0.1	443	0.3
	Total	6 700	0.8	3 129	0.4	5 033	0.8	2 569	0.4
Red-breasted Merganser	1	173	0.1	656	0.3	504	0.3	958	0.5
	2	1 841	0.4	166	0.0	548	0.1	490	0.1
	3	285	0.2	0	0.0	115	0.1	79	0.1
	Total	2 299	0.3	822	0.1	1 167	0.2	1 527	0.2
Hooded Merganser	1	726	0.3	487	0.2	363	0.2	442	0.2
	2	11 080	2.7	10 073	2.3	13 456	3.5	10 153	2.9
	3	5 055	3.2	2 999	2.5	3 362	2.7	2 451	1.8
	Total	16 861	2.1	13 559	1.8	17 181	2.6	13 046	1.9
Mallard	1	89 956	37.7	112 828	53.1	76 453	48.6	92 048	47.9
	2	130 272	31.6	167 331	38.1	116 431	30.6	112 290	31.9
	3	45 143	29.0	38 922	32.4	40 809	33.0	57 748	42.2
	Total	265 371	32.9	319 081	41.3	233 693	35.3	262 086	38.5
American Black Duck	1	12 608	5.3	19 549	9.2	11 959	7.6	10 900	5.7
	2	29 162	7.1	26 762	6.1	29 142	7.7	21 677	6.2
	3	17 870	11.5	16 095	13.4	18 661	15.1	15 434	11.3
	Total	59 640	7.4	62 406	8.1	59 762	9.0	48 011	7.0
Gadwall	1	1 565	0.7	655	0.3	894	0.6	2 119	1.1
	2	1 802	0.4	994	0.2	1 352	0.4	454	0.1
	3	249	0.2	78	0.1	188	0.1	499	0.4
	Total	3 616	0.4	1 727	0.2	2 434	0.4	3 072	0.5
American Wigeon	1	7 619	3.2	4 457	2.1	2 883	1.8	5 480	2.9
	2	4 078	1.0	4 459	1.0	4 311	1.1	3 690	1.1
	3	2 878	1.8	1 984	1.7	1 830	1.5	3 158	2.3
	Total	14 575	1.8	10 900	1.4	9 024	1.4	12 328	1.8
Eurasian Green-winged Teal	1	0	0.0	0	0.0	0	0.0	0	0.0
	2	0	0.0	0	0.0	0	0.0	77	0.0
	3	0	0.0	0	0.0	0	0.0	0	0.0
	Total	0	0.0	0	0.0	0	0.0	77	0.0
American Green-winged Teal	1	12 185	5.1	8 843	4.2	8 898	5.7	11 222	5.8
	2	20 496	5.0	17 357	3.9	17 312	4.6	22 435	6.4
	3	7 083	4.5	5 900	4.9	10 365	8.4	7 649	5.6
	Total	39 764	4.9	32 100	4.2	36 575	5.5	41 306	6.1
Blue-winged Teal	1	6 520	2.7	2 814	1.3	648	0.4	3 895	2.0
	2	21 385	5.2	14 783	3.4	12 826	3.4	9 938	2.8
	3	4 120	2.6	3 334	2.8	4 702	3.8	4 652	3.4
	Total	32 025	4.0	20 931	2.7	18 176	2.7	18 485	2.7
Northern Shoveler	1	907	0.4	207	0.1	1 095	0.7	702	0.4
	2	893	0.2	559	0.1	956	0.3	413	0.1
	3	97	0.1	422	0.4	338	0.3	327	0.2
	Total	1 897	0.2	1 188	0.2	2 389	0.4	1 442	0.2
Northern Pintail	1	3 788	1.6	3 485	1.6	3 557	2.3	4 785	2.5
	2	3 124	0.8	2 004	0.5	2 697	0.7	4 237	1.2
	3	2 426	1.6	775	0.6	1 784	1.4	2 582	1.9
	Total	9 338	1.2	6 264	0.8	8 038	1.2	11 604	1.7
Wood Duck	1	22 134	9.3	17 151	8.1	20 495	13.0	21 996	11.5
	2	70 116	17.0	92 843	21.1	70 043	18.4	69 056	19.6
	3	10 980	7.1	7 846	6.5	9 157	7.4	10 547	7.7
	Total	103 230	12.8	117 840	15.3	99 695	15.1	101 599	14.9

(continued)

Table 23 *(continued)*
Estimated number of waterfowl harvested in Ontario, 1986–89

Species	Zone	1986 Harvest	1986 %	1987 Harvest	1987 %	1988 Harvest	1988 %	1989 Harvest	1989 %
Redhead	1	11 872	5.0	5 365	2.5	2 508	1.6	1 801	0.9
	2	8 476	2.1	4 200	1.0	2 020	0.5	394	0.1
	3	1 972	1.3	839	0.7	0	0.0	172	0.1
	Total	22 320	2.8	10 404	1.3	4 528	0.7	2 367	0.3
Canvasback	1	10 783	4.5	4 066	1.9	2 127	1.4	2 656	1.4
	2	2 808	0.7	2 128	0.5	88	0.2	344	0.1
	3	748	0.5	117	0.1	0	0.0	183	0.1
	Total	14 339	1.8	6 311	0.8	2 215	0.3	3 183	0.5
Greater Scaup	1	12 887	5.4	3 944	1.9	6 634	4.2	6 996	3.6
	2	14 712	3.6	8 437	1.9	5 427	1.4	7 222	2.1
	3	2 122	1.4	531	0.4	948	0.8	880	0.6
	Total	29 721	3.7	12 912	1.7	13 009	2.0	15 098	2.2
Lesser Scaup	1	15 246	6.4	6 141	2.9	8 343	5.3	11 115	5.8
	2	24 612	6.0	20 159	4.6	15 473	4.1	22 645	6.4
	3	8 206	5.3	8 850	7.4	7 875	6.4	6 291	4.6
	Total	48 064	6.0	35 150	4.6	31 691	4.8	40 051	5.9
Ring-necked Duck	1	8 025	3.4	4 621	2.2	1 545	1.0	2 951	1.5
	2	30 273	7.3	28 435	6.5	34 926	9.2	26 379	7.5
	3	27 946	17.9	20 407	17.0	12 143	9.8	13 568	9.9
	Total	66 244	8.2	53 463	6.9	48 614	7.4	42 898	6.3
Common Goldeneye	1	3 533	1.5	3 058	1.4	2 091	1.3	3 065	1.6
	2	17 692	4.3	20 319	4.6	27 234	7.2	23 081	6.6
	3	9 945	6.4	5 772	4.8	7 856	6.4	7 173	5.2
	Total	31 170	3.9	29 149	3.8	37 181	5.6	33 319	4.9
Barrow's Goldeneye	1	0	0.0	0	0.0	0	0.0	0	0.0
	2	0	0.0	209	0.0	0	0.0	172	0.1
	3	0	0.0	0	0.0	0	0.0	86	0.1
	Total	0	0.0	209	0.0	0	0.0	258	0.1
Bufflehead	1	13 582	5.7	12 329	5.8	5 247	3.3	7 296	3.8
	2	12 005	2.9	9 590	2.2	16 783	4.4	10 779	3.1
	3	7 031	4.5	3 436	2.9	2 358	1.9	2 267	1.7
	Total	32 618	4.0	25 355	3.3	24 388	3.7	20 342	3.0
Ruddy Duck	1	4 443	1.9	207	0.1	347	0.2	549	0.3
	2	2 745	0.7	0	0.0	0	0.0	0	0.0
	3	0	0.0	0	0.0	0	0.0	0	0.0
	Total	7 188	0.9	207	0.0	347	0.0	549	0.1
Total sport ducks		806 980	98.2	763 107	98.8	655 144	99.1	675 217	99.1
Oldsquaw	1	320	0.0	384	0.2	0	0.0	0	0.0
	2	6 499	0.8	1 875	0.4	2 139	0.6	167	0.1
	3	249	0.0	0	0.0	115	0.1	266	0.2
	Total	7 068	0.9	2 259	0.3	2 254	0.3	433	0.1
Harlequin Duck	1	637	0.1	0	0.0	0	0.0	0	0.0
	2	454	0.1	0	0.0	739	0.2	156	0.1
	3	499	0.1	536	0.4	419	0.3	142	0.1
	Total	1 590	0.2	536	0.1	1 158	0.2	298	0.1
Common Eider	1	0	0.0	0	0.0	0	0.0	0	0.0
	2	0	0.0	0	0.0	0	0.0	0	0.0
	3	71	0.0	0	0.0	0	0.0	0	0.0
	Total	71	0.0	0	0.0	0	0.0	0	0.0

(continued)

Table 23 *(concluded)*
Estimated number of waterfowl harvested in Ontario, 1986–89

Species	Zone	1986 Harvest	1986 %[a]	1987 Harvest	1987 %[a]	1988 Harvest	1988 %[a]	1989 Harvest	1989 %[a]
Black Scoter	1	659	0.1	103	0.0	113	0.1	0	0.0
	2	1 498	0.2	619	0.1	602	0.2	654	0.2
	3	553	0.1	110	0.1	0	0.0	0	0.0
	Total	2 710	0.3	832	0.1	715	0.1	654	0.1
White-winged Scoter	1	311	0.0	682	0.3	226	0.1	0	0.0
	2	905	0.1	2 516	0.6	938	0.3	1 653	0.5
	3	249	0.0	453	0.4	224	0.2	106	0.1
	Total	1 465	0.2	3 651	0.5	1 388	0.2	1 759	0.3
Surf Scoter	1	475	0.1	550	0.3	0	0.0	456	0.2
	2	1 024	0.1	1 156	0.3	343	0.1	2 067	0.6
	3	401	0.0	333	0.3	303	0.2	186	0.1
	Total	1 900	0.2	2 039	0.3	646	0.1	2 709	0.4
Total sea ducks		14 804	1.8	9 317	1.2	6 161	0.9	5 853	0.9
Total ducks		821 784	90.2	772 424	100.0	661 305	100.0	681 070	100.0
Canada Goose	1	35 012	99.3	39 018	100.0	28 573	98.8	43 247	98.2
	2	32 014	97.9	35 922	97.3	29 283	99.5	34 495	96.9
	3	19 273	90.3	16 995	80.5	21 544	92.1	27 482	88.0
	Total	86 299	96.6	91 935	94.7	79 400	97.1	105 224	94.5
Lesser Snow Goose (white phase)	1	0	0.0	0	0.0	79	0.3	694	1.6
	2	48	0.1	688	1.9	0	0.0	747	2.1
	3	1 050	4.9	4 110	19.5	1 116	4.8	3 100	9.9
	Total	1 098	1.2	4 798	4.9	1 195	1.5	4 541	4.1
Lesser Snow Goose (blue phase)	1	203	0.6	0	0.0	95	0.3	0	0.0
	2	0	0.0	321	0.9	96	0.3	375	1.1
	3	1 015	4.8	0	0.0	653	2.8	431	1.4
	Total	1 218	1.4	321	0.3	844	1.0	806	0.7
Greater Snow Goose	1	0	0.0	0	0.0	0	0.0	111	0.3
	2	0	0.0	0	0.0	0	0.0	0	0.0
	3	0	0.0	0	0.0	0	0.0	173	0.6
	Total	0	0.0	0	0.0	0	0.0	284	0.3
White-fronted Goose	1	0	0.0	0	0.0	0	0.0	0	0.0
	2	0	0.0	0	0.0	0	0.0	0	0.0
	3	0	0.0	0	0.0	0	0.0	34	0.1
	Total	0	0.0	0	0.0	0	0.0	34	0.1
Brant	1	59	0.2	0	0.0	174	0.6	0	0.0
	2	633	1.9	0	0.0	66	0.2	0	0.0
	3	0	0.0	0	0.0	79	0.3	0	0.0
	Total	692	0.8	0	0.0	319	0.4	0	0.0
Total geese		89 307	9.8	97 054	100.0	81 760	100.0	110 889	100.0
Total waterfowl		911 091	100.0	869 478	—	743 065	—	791 959	—

[a] Different methods of calculating percentages have been used in past years, so that only years 1987, 1988, and 1989 are comparable in Tables 18 through 29. Zonal percentages were calculated as (species / total ducks or total geese in zone) × 100; total percentages were calculated as (species / total ducks or total geese in province) × 100.

Table 24
Estimated number of waterfowl harvested in Manitoba, 1986–89

Species	Zone	1986 Harvest	1986 %[a]	1987 Harvest	1987 %[a]	1988 Harvest	1988 %[a]	1989 Harvest	1989 %[a]
Common Merganser	1	0	0.0	86	0.1	0	0.0	0	0.0
	2	0	0.0	703	1.0	0	0.0	0	0.0
	Total	0	0.0	789	0.4	0	0.0	0	0.0
Hooded Merganser	1	752	0.5	198	0.1	0	0.0	400	0.5
	2	255	0.5	0	0.0	144	0.3	0	0.0
	Total	1 007	0.5	198	0.1	144	0.1	400	0.3
Mallard	1	86 693	56.2	90 036	61.6	36 695	46.3	39 092	50.9
	2	26 844	50.3	46 922	70.0	23 121	49.5	29 190	65.4
	Total	113 537	54.6	136 958	64.2	59 816	47.5	68 282	56.2
American Black Duck	1	373	0.2	0	0.0	0	0.0	166	0.2
	2	0	0.0	0	0.0	0	0.0	0	0.0
	Total	373	0.2	0	0.0	0	0.0	166	0.1
Gadwall	1	4 328	2.8	6 391	4.4	2 299	2.9	5 261	6.9
	2	3 362	6.3	0	0.0	432	0.9	1 725	3.9
	Total	7 690	3.7	6 391	3.0	2 731	2.2	6 986	5.8
American Wigeon	1	5 568	3.6	6 106	4.2	3 614	4.6	3 382	4.4
	2	3 710	6.9	2 295	3.4	989	2.1	3 247	7.3
	Total	9 278	4.5	8 401	3.9	4 603	3.7	6 629	5.5
American Green-winged Teal	1	7 366	4.8	6 923	4.7	8 153	10.3	4 908	6.4
	2	1 257	2.4	2 919	4.4	2 593	5.6	2 172	4.9
	Total	8 623	4.1	9 842	4.6	10 746	8.5	7 080	5.8
Blue-winged Teal	1	8 775	5.7	3 285	2.2	9 802	12.4	2 793	3.6
	2	1 126	2.1	1 865	2.8	1 609	3.4	1 976	4.4
	Total	9 901	4.8	5 150	2.4	11 411	9.1	4 769	3.9
Northern Shoveler	1	7 875	5.1	2 931	2.0	4 721	6.0	2 184	2.8
	2	967	1.8	0	0.0	2 017	4.3	2 377	5.3
	Total	8 842	4.3	2 931	1.4	6 738	5.4	4 561	3.8
Northern Pintail	1	4 748	3.1	3 027	2.1	6 202	7.8	6 484	8.4
	2	1 904	3.6	2 376	3.5	7 797	16.7	1 225	2.8
	Total	6 652	3.2	5 403	2.5	13 999	11.1	7 709	6.3
Wood Duck	1	95	0.1	633	0.4	0	0.0	609	0.8
	2	602	1.1	270	0.4	241	0.5	844	1.9
	Total	697	0.3	903	0.4	241	0.2	1 453	1.2
Redhead	1	6 105	4.0	4 497	3.1	893	1.1	1 122	1.5
	2	1 348	2.5	351	0.5	507	1.1	0	0.0
	Total	7 453	3.6	4 848	2.3	1 400	1.1	1 122	0.9
Canvasback	1	3 045	2.0	1 434	1.0	724	0.9	856	1.1
	2	0	0.0	892	1.3	2 630	5.6	783	1.8
	Total	3 045	1.0	2 326	1.1	3 354	2.7	1 639	1.3
Greater Scaup	1	983	0.6	804	0.6	0	0.0	0	0.0
	2	0	0.0	0	0.0	0	0.0	0	0.0
	Total	983	0.5	804	0.4	0	0.0	0	0.0
Lesser Scaup	1	9 011	5.8	9 449	6.5	3 927	4.9	6 312	8.2
	2	5 282	9.9	1 779	2.7	3 143	6.7	802	1.8
	Total	14 293	6.9	11 228	5.3	7 070	5.6	7 114	5.9

(continued)

Table 24 *(continued)*
Estimated number of waterfowl harvested in Manitoba, 1986–89

Species	Zone	1986 Harvest	1986 %[a]	1987 Harvest	1987 %[a]	1988 Harvest	1988 %[a]	1989 Harvest	1989 %[a]
Ring-necked Duck	1	6 254	4.1	6 921	4.7	676	0.9	1 774	2.3
	2	5 048	9.5	4 631	6.9	1 315	2.8	0	0.0
	Total	11 302	5.4	11 552	5.4	1 991	1.6	1 774	1.5
Common Goldeneye	1	670	0.4	1 558	1.1	0	0.0	500	0.7
	2	255	0.5	270	0.4	97	0.2	278	0.6
	Total	925	0.4	1 828	0.9	97	0.0	778	0.6
Bufflehead	1	1 289	0.8	1 698	1.2	1 337	1.7	957	1.3
	2	1 446	2.7	435	0.6	0	0.0	0	0.0
	Total	2 735	1.3	2 133	1.0	1 337	1.1	957	0.8
Ruddy Duck	1	457	0.3	86	0.1	192	0.2	0	0.0
	2	0	0.0	0	0.0	97	0.2	0	0.0
	Total	457	0.2	86	0.0	289	0.2	0	0.0
Total sport ducks		207 793	100.0	211 771	99.3	125 969	100.0	121 419	100.0
Common Eider	1	0	0.0	86	0.1	0	0.0	0	0.0
	2	0	0.0	270	0.4	0	0.0	0	0.0
	Total	0	0.0	356	0.2	0	0.0	0	0.0
Black Scoter	1	0	0.0	0	0.0	0	0.0	0	0.0
	2	0	0.0	1 074	1.6	0	0.0	0	0.0
	Total	0	0.0	1 074	0.5	0	0.0	0	0.0
White-winged Scoter	1	0	0.0	0	0.0	0	0.0	0	0.0
	2	0	0.0	0	0.0	0	0.0	0	0.0
	Total	0	0.0	0	0.0	0	0.0	0	0.0
Surf Scoter	1	0	0.0	0	0.0	0	0.0	0	0.0
	2	0	0.0	0	0.0	0	0.0	0	0.0
	Total	0	0.0	0	0.0	0	0.0	0	0.0
Total sea ducks		0	0.0	1 430	0.7	0	0.0	0	0.0
Total ducks		207 793	59.7	213 201	100.0	125 969	100.0	121 419	100.0
Canada Goose	1	3 880	3.7	2 513	1.7	4 218	4.3	3 482	2.7
	2	2 938	8.5	0	0.0	1 983	6.5	2 602	6.0
	Total	6 818	4.9	2 513	1.2	6 201	4.8	6 084	3.6
Small Canada Goose	1	10 361	9.8	6 707	4.6	5 993	6.1	13 491	10.6
	2	1 963	5.7	897	1.3	6 182	20.2	4 911	11.3
	Total	12 324	8.8	7 604	3.6	12 175	9.4	18 402	10.8
Large Canada Goose	1	51 315	48.6	48 821	33.4	27 205	27.6	36 760	29.0
	2	20 467	59.2	22 532	33.6	11 002	35.9	14 743	34.0
	Total	71 782	51.2	71 353	33.5	38 207	29.6	51 503	30.2
Lesser Snow Goose (white phase)	1	17 361	16.4	26 274	18.0	29 034	29.5	31 580	24.9
	2	6 288	18.2	2 687	4.0	9 033	29.5	11 402	26.3
	Total	23 649	16.9	28 961	13.6	38 067	29.5	42 982	25.2
Lesser Snow Goose (blue phase)	1	22 046	20.9	38 212	26.1	31 331	31.8	41 482	32.7
	2	2 497	7.2	2 744	4.1	2 011	6.6	9 400	21.7
	Total	24 543	17.5	40 956	19.2	33 342	25.8	50 882	29.9

(continued)

Table 24 *(concluded)*
Estimated number of waterfowl harvested in Manitoba, 1986–89

Species	Zone	1986 Harvest	1986 %[a]	1987 Harvest	1987 %[a]	1988 Harvest	1988 %[a]	1989 Harvest	1989 %[a]
Ross' Goose	1	167	0.2	3 429	2.3	665	0.7	203	0.2
	2	443	1.3	0	0.0	432	1.4	133	0.3
	Total	610	0.4	3 429	1.6	1 097	0.8	336	0.2
White-fronted Goose	1	546	0.5	119	0.1	0	0.0	0	0.0
	2	0	0.0	0	0.0	0	0.0	145	0.3
	Total	546	0.5	119	0.1	0	0.0	145	0.1
Total geese		140 272	40.3	154 935	100.0	129 089	100.0	170 334	100.0
Total waterfowl		348 065	100.0	368 136	—	255 058	—	291 753	—

[a] Different methods of calculating percentages have been used in past years, so that only years 1987, 1988, and 1989 are comparable in Tables 18 through 29. Zonal percentages were calculated as (species / total ducks or total geese in zone) × 100; total percentages were calculated as (species / total ducks or total geese in province) × 100.

Table 25
Estimated number of waterfowl harvested in Saskatchewan, 1986–89

Species	Zone	1986 Harvest	1986 %[a]	1987 Harvest	1987 %[a]	1988 Harvest	1988 %[a]	1989 Harvest	1989 %[a]
Hooded Merganser	1	0	0.0	0	0.0	0	0.0	0	0.0
	2	0	0.0	0	0.0	0	0.0	367	1.0
	3	248	0.3	0	0.0	0	0.0	0	0.0
	Total	248	0.1	0	0.0	0	0.0	367	0.4
Mallard	1	51 222	63.0	55 589	81.9	20 023	66.0	24 027	65.4
	2	40 652	69.5	47 758	78.9	27 813	66.6	23 812	66.6
	3	59 233	68.5	60 252	76.5	25 683	78.6	26 943	85.2
	Total	151 107	66.8	163 599	79.0	73 519	70.2	74 782	71.8
American Black Duck	1	0	0.0	0	0.0	0	0.0	0	0.0
	2	0	0.0	0	0.0	0	0.0	0	0.0
	3	275	0.3	0	0.0	122	0.4	0	0.0
	Total	275	0.1	0	0.0	122	0.1	0	0.0
Gadwall	1	8 187	10.1	1 300	1.9	1 573	5.2	4 233	11.5
	2	5 372	9.2	2 124	3.5	1 617	3.9	2 644	7.4
	3	3 187	3.7	2 010	2.6	127	0.4	974	3.1
	Total	16 746	7.4	5 434	2.6	3 317	3.2	7 851	7.5
American Wigeon	1	4 345	5.3	967	1.4	1 145	3.8	3 010	8.2
	2	2 886	4.9	2 802	4.6	500	1.2	1 695	4.7
	3	4 846	5.6	3 520	4.5	2 734	8.4	748	2.4
	Total	12 077	5.3	7 289	3.5	4 379	4.2	5 453	5.2
American Green-winged Teal	1	2 263	2.8	1 908	2.8	1 664	5.5	900	2.5
	2	2 185	3.7	878	1.5	370	0.9	1 465	4.1
	3	2 525	2.9	1 547	2.0	2 064	6.3	916	2.9
	Total	6 973	3.1	4 333	2.1	4 098	3.9	3 281	3.2
Blue-winged Teal	1	1 625	2.0	131	0.2	347	1.1	937	2.6
	2	2 221	3.8	1 175	1.9	1 602	3.8	1 668	4.7
	3	2 779	3.2	835	1.1	0	0.0	603	1.9
	Total	6 625	2.9	2 141	1.0	1 949	1.9	3 208	3.1
Northern Shoveler	1	970	1.2	2 510	3.7	842	2.8	585	1.6
	2	1 493	2.6	735	1.2	1 494	3.6	291	0.8
	3	2 765	3.2	2 204	2.8	175	0.5	0	0.0
	Total	5 228	2.3	5 449	2.6	2 511	2.4	876	0.8
Northern Pintail	1	5 713	7.0	2 597	3.8	3 045	10.0	2 089	5.7
	2	1 729	3.0	2 281	3.8	2 774	6.6	1 815	5.1
	3	1 605	1.9	3 899	4.9	175	0.5	1 176	3.7
	Total	9 047	4.0	8 777	4.2	5 994	5.7	5 080	4.9
Redhead	1	2 168	2.7	779	1.1	130	0.4	451	1.2
	2	435	0.7	0	0.0	0	0.0	248	0.7
	3	3 303	3.8	1 684	2.1	924	2.8	0	0.0
	Total	5 906	2.6	2 463	1.2	1 054	1.0	699	0.7
Canvasback	1	3 066	3.8	0	0.0	621	2.0	174	0.5
	2	644	1.1	563	0.9	1 313	3.1	74	0.2
	3	1 435	1.7	0	0.0	175	0.5	0	0.0
	Total	5 145	2.3	563	0.3	2 109	2.0	248	0.2

(continued)

Table 25 *(continued)*
Estimated number of waterfowl harvested in Saskatchewan, 1986–89

Species	Zone	1986 Harvest	1986 %[a]	1987 Harvest	1987 %[a]	1988 Harvest	1988 %[a]	1989 Harvest	1989 %[a]
Greater Scaup	1	0	0.0	0	0.0	0	0.0	0	0.0
	2	0	0.0	149	0.2	0	0.0	0	0.0
	3	248	0.3	0	0.0	0	0.0	0	0.0
	Total	248	0.1	149	0.1	0	0.0	0	0.0
Lesser Scaup	1	1 623	2.0	2 080	1.0	618	2.0	338	0.9
	2	872	1.5	1 330	2.2	4 302	10.3	912	2.6
	3	3 259	3.8	2 861	3.6	122	0.3	164	0.5
	Total	5 754	2.5	6 271	3.0	5 042	4.8	1 414	1.4
Ring-necked Duck	1	0	0.0	0	0.0	0	0.0	0	0.0
	2	0	0.0	225	0.4	0	0.0	0	0.0
	3	0	0.0	0	0.0	0	0.0	0	0.0
	Total	0	0.0	225	0.1	0	0.0	0	0.0
Common Goldeneye	1	0	0.0	0	0.0	0	0.0	0	0.0
	2	0	0.0	0	0.0	0	0.0	562	1.6
	3	494	0.3	0	0.0	367	1.1	0	0.0
	Total	494	0.1	0	0.0	367	0.4	562	0.5
Bufflehead	1	0	0.0	0	0.0	313	1.0	0	0.0
	2	0	0.0	374	0.6	0	0.0	195	0.5
	3	248	0.3	0	0.0	0	0.0	118	0.4
	Total	248	0.1	374	0.2	313	0.3	313	0.3
Ruddy Duck	1	109	0.1	0	0.0	0	0.0	0	0.0
	2	0	0.0	0	0.0	0	0.0	0	0.0
	3	0	0.0	0	0.0	0	0.0	0	0.0
	Total	109	0.0	0	0.0	0	0.0	0	0.0
Total sport ducks		226 230	99.9	207 067	99.9	104 776	100.0	104 134	100.0
White-winged Scoter	1	0	0.0	0	0.0	0	0.0	0	0.0
	2	0	0.0	0	0.0	0	0.0	0	0.0
	3	248	0.1	0	0.0	0	0.0	0	0.0
	Total	248	0.1	0	0.0	0	0.0	0	0.0
Surf Scoter	1	0	0.0	0	0.0	0	0.0	0	0.0
	2	0	0.0	149	0.2	0	0.0	0	0.0
	3	0	0.0	0	0.0	0	0.0	0	0.0
	Total	0	0.0	149	0.1	0	0.0	0	0.0
Total sea ducks		248	0.1	149	0.1	0	0.0	0	0.0
Total ducks		226 478	59.6	207 216	100.0	104 776	100.0	104 134	100.0

(continued)

Table 25 *(concluded)*
Estimated number of waterfowl harvested in Saskatchewan, 1986–89

Species	Zone	1986		1987		1988		1989	
		Harvest	%[a]	Harvest	%[a]	Harvest	%[a]	Harvest	%[a]
Canada Goose	1	832	1.1	2 854	3.4	421	0.7	969	1.3
	2	208	1.0	214	0.6	1 441	5.9	379	1.2
	3	0	0.0	836	1.5	277	0.6	1 851	4.1
	Total	1 040	0.7	3 904	2.2	2 139	1.7	3 199	2.1
Small Canada Goose	1	13 055	18.0	17 677	20.8	14 545	25.2	17 770	24.5
	2	1 091	5.0	3 518	10.6	1 433	5.9	1 784	5.6
	3	6 897	11.7	10 651	19.0	6 101	14.1	7 017	15.5
	Total	21 043	13.7	31 846	18.3	22 079	17.6	26 571	17.7
Large Canada Goose	1	15 539	21.4	23 793	27.9	9 789	16.9	14 276	19.7
	2	18 321	83.7	22 026	66.5	19 888	81.3	21 550	67.5
	3	27 220	46.3	26 109	46.6	25 993	60.2	20 138	44.5
	Total	61 080	39.8	71 928	41.3	55 670	44.4	55 964	37.4
Lesser Snow Goose (white phase)	1	11 010	15.2	8 647	10.2	12 251	21.2	12 912	17.8
	2	1 587	7.3	259	0.8	771	3.2	1 092	3.4
	3	8 791	14.9	11 389	20.3	7 157	16.8	8 607	19.0
	Total	21 388	13.9	20 295	11.6	20 179	16.1	22 611	15.1
Lesser Snow Goose (blue phase)	1	2 369	3.3	2 015	2.4	1 259	2.2	611	0.8
	2	232	1.1	0	0.0	0	0.0	0	0.0
	3	7 673	13.0	2 536	4.5	2 296	5.3	2 352	5.2
	Total	10 274	6.7	4 551	2.6	3 555	2.8	2 963	2.0
Greater Snow Goose	1	0	0.0	0	0.0	0	0.0	0	0.0
	2	0	0.0	0	0.0	0	0.0	0	0.0
	3	0	0.0	0	0.0	85	0.2	0	0.0
	Total	0	0.0	0	0.0	85	0.0	0	0.0
Ross' Goose	1	511	0.7	1 297	1.5	1 324	2.3	2 554	3.5
	2	0	0.0	274	0.8	0	0.0	0	0.0
	3	0	0.0	106	0.2	0	0.0	359	0.8
	Total	511	0.3	1 677	1.0	1 324	1.1	2 913	1.9
White-fronted Goose	1	29 345	40.4	28 889	33.9	18 189	31.5	23 507	32.4
	2	446	2.0	6 843	20.7	917	3.8	7 101	22.3
	3	8 232	14.0	4 391	7.8	1 263	2.9	4 973	11.0
	Total	38 023	24.8	40 123	23.0	20 369	16.2	35 581	23.8
Brant	1	0	0.0	0	0.0	0	0.0	0	0.0
	2	0	0.0	0	0.0	0	0.0	0	0.0
	3	0	0.0	0	0.0	0	0.0	0	0.0
	Total	0	0.0	0	0.0	0	0.0	0	0.0
Total geese		153 359	40.4	174 324	100.0	125 398	100.0	149 802	100.0
Total waterfowl		379 837	100.0	381 540	—	230 174	—	253 936	—

[a] Different methods of calculating percentages have been used in past years, so that only years 1987, 1988, and 1989 are comparable in Tables 18 through 29. Zonal percentages were calculated as (species / total ducks or total geese in zone) × 100; total percentages were calculated as (species / total ducks or total geese in province) × 100.

Table 26
Estimated number of waterfowl harvested in Alberta, 1986–89

Species	Zone	1986 Harvest	1986 %*	1987 Harvest	1987 %*	1988 Harvest	1988 %*	1989 Harvest	1989 %*
Common Merganser	1	315	0.4	0	0.0	193	0.3	149	0.2
	2	0	0.0	0	0.0	0	0.0	0	0.0
	Total	315	0.1	0	0.0	193	0.1	149	0.1
Hooded Merganser	1	129	0.1	0	0.0	0	0.0	0	0.0
	2	0	0.0	178	0.1	0	0.0	0	0.0
	Total	129	0.1	178	0.1	0	0.0	0	0.0
Mallard	1	56 184	63.0	79 605	71.5	47 733	72.1	53 691	63.2
	2	125 814	68.2	135 674	70.0	90 282	77.2	132 942	78.2
	Total	181 998	66.5	215 279	70.5	138 015	75.4	186 633	73.2
American Black Duck	1	0	0.0	0	0.0	98	0.2	0	0.0
	2	0	0.0	0	0.0	0	0.0	0	0.0
	Total	0	0.0	0	0.0	98	0.0	0	0.0
Gadwall	1	5 846	6.6	4 723	4.2	3 272	4.9	6 823	8.0
	2	12 591	6.8	14 877	7.7	4 [illegible]	4.2	8 615	5.1
	Total	18 437	6.7	19 600	6.4	8 123	4.4	15 438	6.1
American Wigeon	1	4 738	5.3	6 486	5.8	4 059	6.1	4 557	5.4
	2	8 499	4.6	5 502	2.8	3 812	3.3	5 373	3.2
	Total	13 237	4.8	11 988	3.9	7 871	4.3	9 930	3.9
American Green-winged Teal	1	2 684	3.0	5 012	4.5	1 375	2.1	4 912	5.8
	2	4 499	2.4	5 300	2.7	1 457	1.3	3 734	2.2
	Total	7 183	2.6	10 312	3.4	2 832	1.6	8 646	3.4
Blue-winged Teal	1	3 059	3.4	1 670	1.5	1 255	1.9	3 101	3.7
	2	5 435	2.9	4 278	2.2	675	0.6	5 415	3.2
	Total	8 494	3.1	5 948	1.9	1 930	1.1	8 516	3.3
Northern Shoveler	1	5 678	6.4	1 730	1.6	1 278	1.9	2 733	3.2
	2	11 749	6.4	5 249	2.7	1 456	1.3	5 262	3.1
	Total	17 427	6.4	6 979	2.3	2 734	1.5	7 995	3.1
Northern Pintail	1	3 056	3.4	8 559	7.7	5 432	8.2	6 091	7.2
	2	5 924	3.2	12 619	6.5	9 871	8.4	5 862	3.5
	Total	8 980	3.3	21 178	6.9	15 303	8.4	11 953	4.7
Wood Duck	1	0	0.0	0	0.0	0	0.0	0	0.0
	2	0	0.0	0	0.0	0	0.0	0	0.0
	Total	0	0.0	0	0.0	0	0.0	0	0.0
Redhead	1	2 695	3.0	1 316	1.2	532	0.8	967	1.1
	2	2 317	1.3	2 496	0.8	142	0.1	228	0.1
	Total	5 012	1.8	3 812	1.2	674	0.4	1 195	0.5
Canvasback	1	1 264	1.4	349	0.3	65	0.1	444	0.5
	2	2 735	1.5	449	0.2	301	0.3	447	0.3
	Total	3 999	1.5	798	0.3	366	0.2	891	0.3
Greater Scaup	1	0	0.0	0	0.0	0	0.0	0	0.0
	2	161	0.1	0	0.0	0	0.0	176	0.1
	Total	161	0.1	0	0.0	0	0.0	176	0.1
Lesser Scaup	1	1 939	2.2	1 009	0.9	561	0.9	1 205	1.4
	2	3 871	2.1	4 466	2.3	3 206	2.7	2 019	1.2
	Total	5 810	2.1	5 475	1.8	3 767	2.1	3 224	1.3
Ring-necked Duck	1	508	0.6	0	0.0	227	0.3	187	0.2
	2	474	0.3	852	0.4	179	0.2	0	0.0
	Total	982	0.4	852	0.3	406	0.2	187	0.1

(continued)

Table 26 *(concluded)*
Estimated number of waterfowl harvested in Alberta, 1986–89

Species	Zone	1986 Harvest	1986 %[a]	1987 Harvest	1987 %[a]	1988 Harvest	1988 %[a]	1989 Harvest	1989 %[a]
Common Goldeneye	1	111	0.1	335	0.3	0	0.0	97	0.1
	2	162	0.1	1 710	0.9	0	0.0	0	0.0
	Total	273	0.1	2 045	0.7	0	0.0	97	0.1
Barrow's Goldeneye	1	351	0.4	117	0.1	98	0.1	0	0.0
	2	0	0.0	0	0.0	0	0.0	0	0.0
	Total	351	0.1	117	0.0	98	0.0	0	0.0
Bufflehead	1	0	0.0	117	0.1	65	0.1	0	0.0
	2	110	0.1	305	0.2	675	0.6	0	0.0
	Total	110	0.0	422	0.1	740	0.4	0	0.0
Ruddy Duck	1	596	0.7	224	0.2	0	0.0	0	0.0
	2	110	0.1	0	0.0	0	0.0	0	0.0
	Total	706	0.3	224	0.1	0	0.0	0	0.0
Total sport ducks		273 604	100.0	305 207	100.0	183 145	100.0	255 030	100.0
White-winged Scoter	1	0	0.0	117	0.1	0	0.0	0	0.0
	2	0	0.0	0	0.0	0	0.0	0	0.0
	Total	0	0.0	117	0.0	0	0.0	0	0.0
Surf Scoter	1	0	0.0	0	0.0	0	0.0	0	0.0
	2	0	0.0	0	0.0	0	0.0	0	0.0
	Total	0	0.0	0	0.0	0	0.0	0	0.0
Total sea ducks		0	0.0	117	0.0	0	0.0	0	0.0
Total ducks		273 604	69.4	305 324	100.0	183 145	100.0	255 030	100.0
Canada Goose	1	517	0.9	836	1.3	6 247	12.0	796	1.1
	2	798	1.2	1 929	2.4	19 322	24.5	381	0.5
	Total	1 315	1.1	2 765	1.9	25 569	19.5	1 177	0.8
Small Canada Goose	1	7 080	12.8	11 429	18.0	7 998	15.4	15 642	21.3
	2	16 894	25.9	25 826	31.9	10 340	13.1	22 628	28.1
	Total	23 974	19.9	37 255	25.8	18 338	14.0	38 270	24.9
Large Canada Goose	1	27 814	50.3	40 574	63.8	23 138	44.4	40 740	55.5
	2	35 087	53.8	45 615	56.3	32 596	41.3	42 752	53.1
	Total	62 901	52.2	86 189	59.6	55 734	42.5	83 492	54.3
Lesser Snow Goose (white phase)	1	4 276	7.7	3 026	4.8	3 293	6.3	5 038	6.9
	2	4 376	6.7	1 213	1.5	5 932	7.5	5 430	6.7
	Total	8 652	7.2	4 239	2.9	9 225	7.0	10 468	6.8
Lesser Snow Goose (blue phase)	1	531	1.0	0	0.0	82	0.2	0	0.0
	2	603	0.9	384	0.5	130	0.2	116	0.1
	Total	1 134	0.9	384	0.3	212	0.2	116	0.1
Ross' Goose	1	1 780	3.2	220	0.3	1 487	2.9	1 194	1.6
	2	469	0.7	158	0.2	732	0.9	447	0.6
	Total	2 249	1.9	378	0.3	2 219	1.7	1 641	1.1
White-fronted Goose	1	13 334	24.1	7 474	11.8	9 863	18.9	9 957	13.6
	2	6 958	10.7	5 943	7.3	9 840	12.5	8 758	10.9
	Total	20 292	16.8	13 417	9.3	19 703	15.0	18 715	12.2
Total geese		120 517	30.6	144 627	100.0	131 001	100.0	153 879	100.0
Total waterfowl		394 121	100.0	449 951	—	314 146	—	408 909	—

[a] Different methods of calculating percentages have been used in past years, so that only years 1987, 1988, and 1989 are comparable in Tables 18 through 29. Zonal percentages were calculated as (species / total ducks or total geese in zone) × 100; total percentages were calculated as (species / total ducks or total geese in province) × 100.

Table 27
Estimated number of waterfowl harvested in British Columbia, 1986–89

Species	Zone	1986 Harvest	1986 %[a]	1987 Harvest	1987 %[a]	1988 Harvest	1988 %[a]	1989 Harvest	1989 %[a]
Common Merganser	1	210	0.5	213	0.4	186	0.5	0	0.0
	2	49	0.1	59	0.1	69	0.1	0	0.0
	Total	259	0.2	272	0.2	255	0.2	0	0.0
Red-breasted Merganser	1	37	0.1	0	0.0	0	0.0	0	0.0
	2	0	0.0	0	0.0	27	0.0	0	0.0
	Total	37	0.0	0	0.0	27	0.0	0	0.0
Hooded Merganser	1	171	0.4	246	0.5	363	0.9	0	0.0
	2	0	0.0	158	0.2	70	0.1	194	0.3
	Total	171	0.1	404	0.3	433	0.4	194	0.2
Mallard	1	26 495	60.6	33 702	62.0	24 396	59.7	22 622	65.5
	2	45 677	57.3	44 586	56.7	39 628	53.1	34 521	51.9
	Total	72 172	58.5	78 288	58.9	64 024	55.4	57 143	56.5
Gadwall	1	430	1.0	767	1.4	819	2.0	376	1.1
	2	631	0.8	455	0.6	1 717	2.3	1 139	1.7
	Total	1 061	0.9	1 222	0.9	2 536	2.2	1 515	1.5
American Wigeon	1	3 966	9.1	4 481	8.3	4 812	11.8	3 157	9.1
	2	11 872	14.9	11 112	14.1	10 416	14.0	10 549	15.9
	Total	15 838	12.8	15 593	11.7	15 228	13.2	13 706	13.6
American Green-winged Teal	1	2 555	5.8	2 217	4.1	2 267	5.5	2 574	7.5
	2	9 745	12.2	7 548	9.6	9 172	12.3	10 215	15.4
	Total	12 300	10.0	9 765	7.3	11 439	9.9	12 789	12.7
Blue-winged Teal	1	602	1.4	1 506	2.8	830	2.0	905	2.6
	2	0	0.0	34	0.0	219	0.3	0	0.0
	Total	602	0.5	1 540	1.2	1 049	0.9	905	0.9
Northern Shoveler	1	609	1.4	497	0.9	505	1.2	384	1.1
	2	1 221	1.5	1 251	1.6	1 450	1.9	876	1.3
	Total	1 830	1.5	1 748	1.3	1 955	1.7	1 260	1.2
Northern Pintail	5.0	2 256	5.2	3 697	6.8	2 713	6.6	1 393	4.0
	2	6 563	8.2	7 899	10.0	8 240	11.0	6 954	10.5
	Total	8 819	7.1	11 596	8.7	10 953	9.5	8 347	8.3
Wood Duck	1	236	0.5	0	0.0	93	0.2	0	0.0
	2	764	1.0	282	0.4	1 028	1.4	1 113	1.7
	Total	1 000	0.8	282	0.2	1 121	0.9	1 113	1.1
Redhead	1	88	0.2	176	0.3	0	0.0	131	0.4
	2	0	0.0	34	0.0	0	0.0	0	0.0
	Total	88	0.1	210	0.2	0	0.0	131	0.1
Canvasback	1	556	1.3	126	0.2	149	0.4	0	0.0
	2	348	0.4	386	0.5	69	0.1	45	0.1
	Total	904	0.7	512	0.4	218	0.2	45	0.1
Greater Scaup	1	288	0.7	236	0.4	66	0.2	59	0.2
	2	821	1.0	128	0.2	148	0.2	182	0.3
	Total	1 109	0.9	364	0.3	214	0.2	241	0.2
Lesser Scaup	1	870	2.0	538	1.0	242	0.6	441	1.3
	2	350	0.4	702	0.9	269	0.4	86	0.1
	Total	1 220	1.0	1 240	0.9	511	0.4	527	0.5
Ring-necked Duck	1	1 383	3.2	1 251	2.3	576	1.4	271	0.8
	2	0	0.0	169	0.2	619	0.8	217	0.3
	Total	1 383	1.1	1 420	1.1	1 195	1.0	488	0.5

(continued)

Table 27 *(continued)*
Estimated number of waterfowl harvested in British Columbia, 1986–89

Species	Zone	1986		1987		1988		1989	
		Harvest	%[a]	Harvest	%[a]	Harvest	%[a]	Harvest	%[a]
Common Goldeneye	1	957	2.2	1 338	2.5	785	1.9	373	1.1
	2	219	0.3	517	0.7	436	0.6	233	0.4
	Total	1 176	1.0	1 855	1.4	1 221	1.1	606	0.6
Barrow's Goldeneye	1	860	2.0	1 122	2.1	928	2.3	1 350	3.9
	2	0	0.0	280	0.4	0	0.0	43	0.1
	Total	860	0.7	1 402	1.1	928	0.8	1 393	1.4
Bufflehead	1	1 135	2.6	1 879	3.5	1 172	2.9	470	1.4
	2	1 396	1.8	2 209	2.8	871	1.2	169	0.3
	Total	2 531	2.1	4 088	3.1	2 043	1.8	639	0.6
Ruddy Duck	1	0	0.0	140	0.3	0	0.0	0	0.0
	2	0	0.0	558	0.7	0	0.0	0	0.0
	Total	0	0.0	698	0.5	0	0.0	0	0.0
Total sport ducks		123 360	99.2	132 499	99.6	115 350	99.8	101 042	99.9
Oldsquaw	1	0	0.0	0	0.0	0	0.0	0	0.0
	2	0	0.0	0	0.0	135	0.2	0	0.0
	Total	0	0.0	0	0.0	135	0.1	0	0.0
Harlequin Duck	1	0	0.0	43	0.1	0	0.0	0	0.0
	2	596	0.5	63	0.1	0	0.0	0	0.0
	Total	596	0.5	106	0.1	0	0.0	0	0.0
King Eider	1	34	0.0	0	0.0	0	0.0	0	0.0
	2	0	0.0	0	0.0	0	0.0	0	0.0
	Total	34	0.0	0	0.0	0	0.0	0	0.0
Black Scoter	1	0	0.0	0	0.0	0	0.0	0	0.0
	2	0	0.0	0	0.0	55	0.1	0	0.0
	Total	0	0.0	0	0.0	55	0.0	0	0.0
White-winged Scoter	1	303	0.2	90	0.2	0	0.0	0	0.0
	2	0	0.0	0	0.0	0	0.0	0	0.0
	Total	303	0.2	90	0.1	0	0.0	0	0.0
Surf Scoter	1	24	0.0	50	0.1	0	0.0	34	0.1
	2	0	0.0	242	0.3	0	0.0	0	0.0
	Total	24	0.0	292	0.2	0	0.0	34	0.1
Total sea ducks		957	0.8	488	0.4	190	0.2	34	0.1
Total ducks		124 317	88.6	132 987	100.0	115 540	100.0	101 076	100.0
Canada Goose	1	323	4.4	369	4.1	5 364	60.2	178	1.6
	2	427	4.9	988	10.9	4 744	50.7	37	0.5
	Total	750	4.7	1 357	7.5	10 108	55.3	215	1.2
Small Canada Goose	1	621	8.5	1 414	15.8	629	7.1	2 845	26.2
	2	495	5.7	468	5.2	91	0.1	997	14.3
	Total	1 116	7.0	1 882	10.5	720	3.9	3 842	21.5
Large Canada Goose	1	6 259	85.7	7 096	79.5	2 894	32.5	7 785	71.8
	2	5 260	60.6	5 559	61.2	2 354	25.2	5 427	77.5
	Total	11 519	72.1	12 655	70.3	5 248	28.7	13 212	74.0
Lesser Snow Goose (white phase)	1	35	0.5	0	0.0	0	0.0	0	0.0
	2	2 503	28.8	1 993	22.0	2 091	22.3	521	7.4
	Total	2 538	15.9	1 993	11.1	2 091	11.4	521	2.9

Table 27 *(concluded)*
Estimated number of waterfowl harvested in British Columbia, 1986–89

Species	Zone	1986		1987		1988		1989	
		Harvest	%[a]	Harvest	%[a]	Harvest	%[a]	Harvest	%[a]
White-fronted Goose	1	64	0.9	46	0.5	0	0.0	34	0.3
	2	0	0.0	69	0.8	81	0.9	19	0.3
	Total	64	0.4	115	0.6	81	0.4	53	0.3
Brant	1	0	0.0	0	0.0	0	0.0	0	0.0
	2	0	0.0	0	0.0	0	0.0	0	0.0
	Total	0	0.0	0	0.0	0	0.0	0	0.0
Total geese		15 987	11.4	18 002	100.0	18 273	100.0	17 843	100.0
Total waterfowl		140 304	100.0	150 989	—	133 813	—	118 919	—

[a] Different methods of calculating percentages have been used in past years, so that only years 1987, 1988, and 1989 are comparable in Tables 18 through 29. Zonal percentages were calculated as (species / total ducks or total geese in zone) × 100; total percentages were calculated as (species / total ducks or total geese in province) × 100.

Table 28
Estimated number of waterfowl harvested in the Northwest Territories, 1986-89

Species	1986		1987		1988		1989	
	Harvest	%[a]	Harvest	%[a]	Harvest	%[a]	Harvest	%[a]
Common Merganser	245	4.7	0	0.0	0	0.0	0	0.0
Mallard	839	16.1	545	12.3	4 736	92.3	1 639	41.3
American Wigeon	733	14.0	0	0.0	0	0.0	0	0.0
American Green-winged Teal	876	16.8	0	0.0	0	0.0	159	4.0
Blue-winged Teal	164	3.1	0	0.0	0	0.0	58	1.5
Northern Shoveler	638	12.2	0	0.0	0	0.0	0	0.0
Northern Pintail	0	0.0	0	0.0	0	0.0	159	4.0
Canvasback	82	1.6	0	0.0	0	0.0	159	4.0
Lesser Scaup	238	4.6	0	0.0	396	7.7	235	5.9
Ring-necked Duck	1 146	21.9	637	14.4	0	0.0	471	11.9
Common Goldeneye	79	1.5	3 247	73.3	0	0.0	797	20.1
Bufflehead	185	3.5	0	0.0	0	0.0	0	0.0
Ruddy Duck	0	0.0	0	0.0	0	0.0	0	0.0
Total sport ducks	5 225	96.6	4 429	100.0	5 132	100.0	3 677	92.7
Common Eider	0	0.0	0	0.0	0	0.0	288	7.3
White-winged Scoter	0	0.0	0	0.0	0	0.0	0	0.0
Surf Scoter	183	3.4	0	0.0	0	0.0	0	0.0
Total sea ducks	183	3.4	0	0.0	0	0.0	288	7.3
Total ducks	5 408	92.6	4 429	100.0	5 132	100.0	3 965	100.0
Canada Goose	432	100.0	0	0.0	0	0.0	57	100.0
White-fronted Goose	0	0.0	0	0.0	0	0.0	0	0.0
Total geese[b]	432	7.4	914	100.0	230	100.0	57	100.0
Total waterfowl	5 840	100.0	5 343	—	5 362	—	4 022	—

[a] Different methods of calculating percentages have been used in past years, so that only years 1987, 1988, and 1989 are comparable in Tables 18 through 29.
[b] In some years, geese were reported in the HQS as being harvested, but no parts were received in the SCS. The harvest could not be identified to the species level.

Table 29
Estimated number of waterfowl harvested in the Yukon Territory, 1986–89

Species	1986		1987		1988		1989	
	Harvest	%[a]	Harvest	%[a]	Harvest	%[a]	Harvest	%[a]
Mallard	857	30.4	263	17.3	408	30.7	796	100.0
American Wigeon	365	13.0	0	0.0	348	26.2	0	0.0
American Green-winged Teal	767	27.2	340	22.4	0	0.0	0	0.0
Northern Shoveler	0	0.0	213	14.0	0	0.0	0	0.0
Northern Pintail	785	27.9	656	43.2	0	0.0	0	0.0
Canvasback	0	0.0	0	0.0	0	0.0	0	0.0
Greater Scaup	0	0.0	0	0.0	0	0.0	0	0.0
Lesser Scaup	0	0.0	33	2.2	0	0.0	0	0.0
Goldeneye[b]	0	0.0	6	0.4	16	1.2	0	0.0
Bufflehead	42	1.5	6	0.4	555	41.8	0	0.0
Total sport ducks	2 816	98.3	1 517	100.0	1 327	100.0	796	100.0
Black Scoter	42	87.5	0	0.0	0	0.0	0	0.0
Surf Scoter	6	12.5	0	0.0	0	0.0	0	0.0
Total sea ducks	48	1.7	0	0.0	0	0.0	0	0.0
Total ducks	2 864	87.2	1 517	100.0	1 327	100.0	796	100.0
Small Canada Goose	73	17.4	0	0.0	230	100.0	0	0.0
Large Canada Goose	347	82.6	0	0.0	0	0.0	0	0.0
White-fronted Goose	0	0.0	0	0.0	0	0.0	0	0.0
Total geese[c]	420	12.8	358	100.0	230	100.0	0	0.0
Total waterfowl	3 284	100.0	1 875	—	1 557	—	796	—

[a] Different methods of calculating percentages have been used in past years, so that only years 1987, 1988, and 1989 are comparable in Tables 18 through 29.

[b] Includes Common Goldeneye and Barrow's Goldeneye kills.

[c] In some years, geese were reported in the HQS as being harvested, but no parts were received in the SCS. The harvest could not be identified to the species level.

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